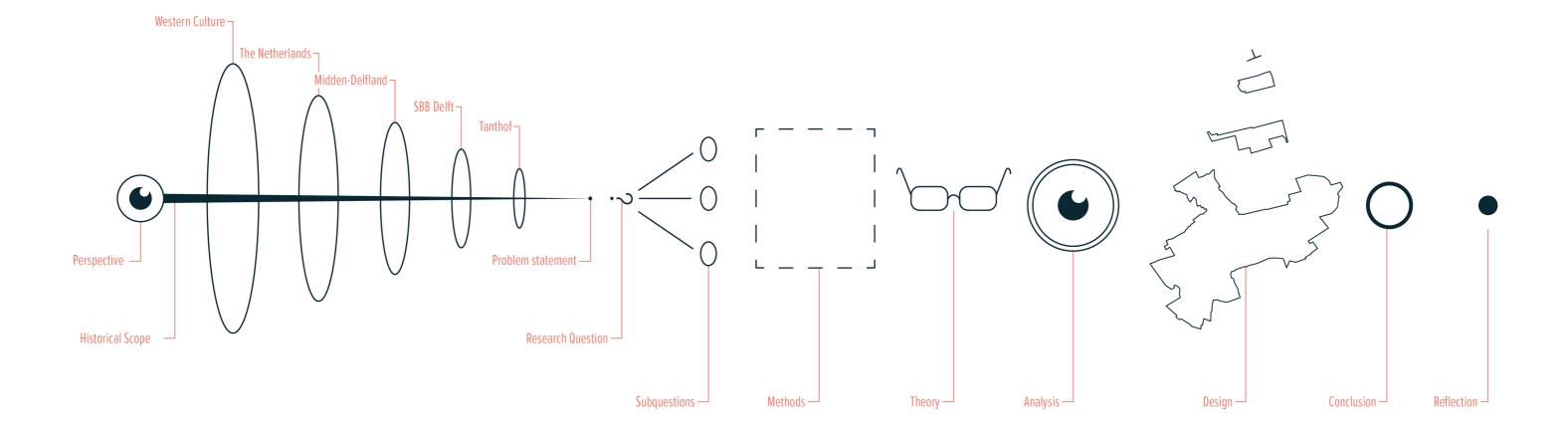




## Content



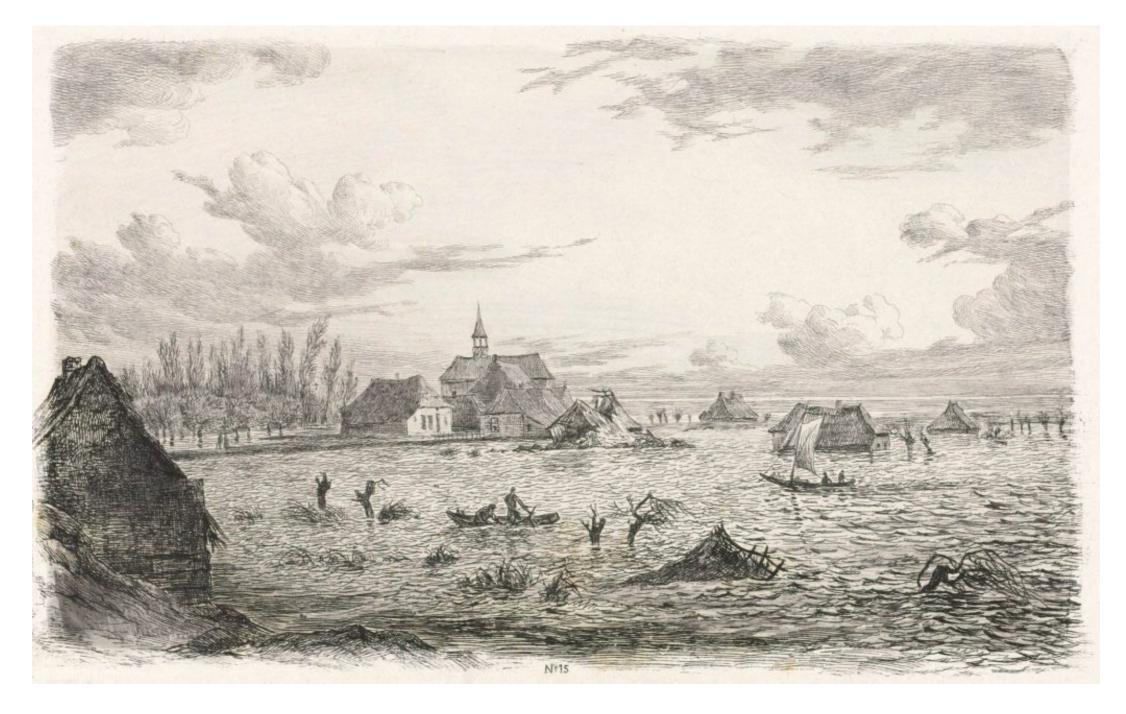
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## Human-Nature Dualism





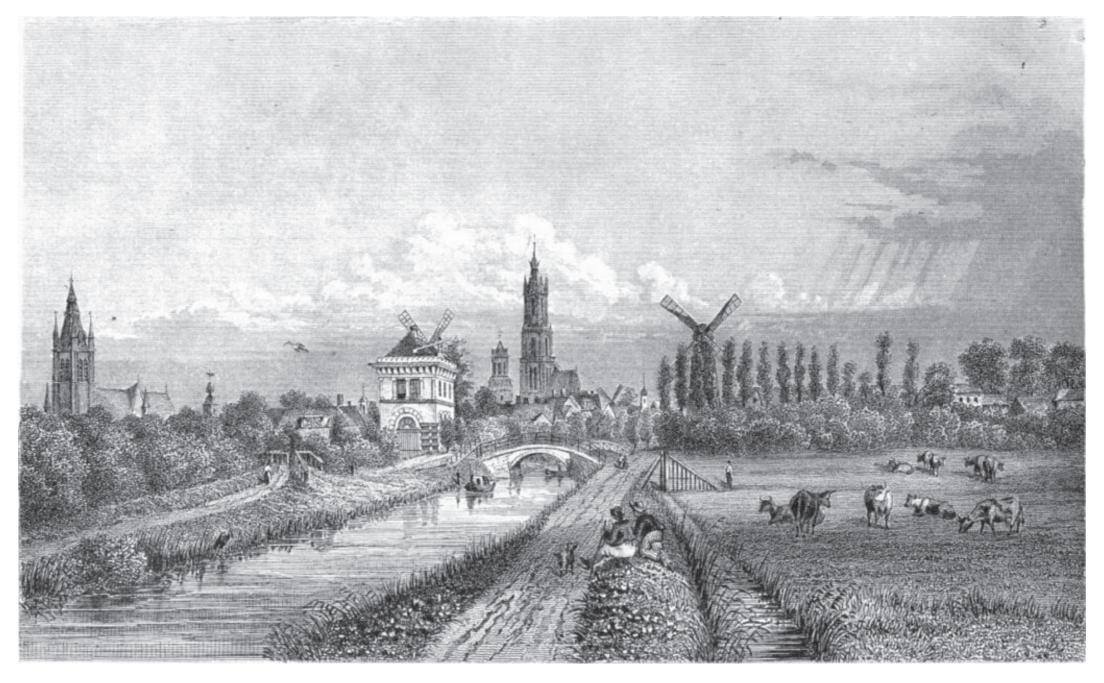
#### Human-Nature Dualism | Protection



George Andries Roth, Watersnood te Kessel 1855. Rijksmuseum Amsterdam. source: https://www.brabantcultureel.nl/

P5 22-09-2022 5/108

#### Human-Nature Dualism | Profit



Het Koningrijk der Nederlanden voorgesteld in eene Reeks van 136 naar de Natuur geteekende schilderachtige Gezigten, 1858 by Johannes Leonardus Terwen. source: www.indebuurt.nl/delft

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#### Human-Nature Dualism | Elimination



Toekomstvisie voor een treinstation op de beursbrug in Rotterdam, F.J. Becker, 1864. source: www.rijksmuseum.nl

**P5** 22-09-2022 **7/108** 

## Human-Nature Dualism | Urban lifestyle



Paul and Margaret, 2009 by David Hockney source: www.hockney.com

**P5** 22-09-2022 **8/108** 

## Human-Nature Dualism | Impact on nature



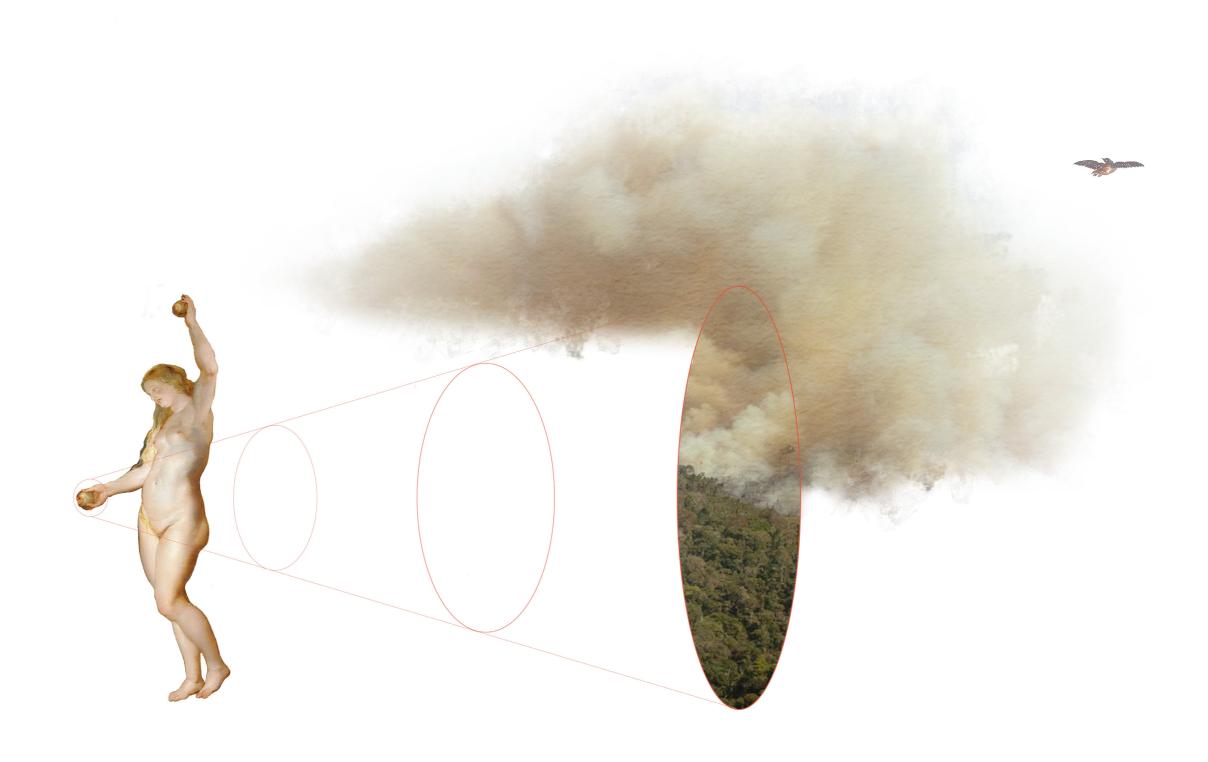
Ignoring nature Fighting nature Profit from nature Erasing nature Restricting nature

## Nature as profit

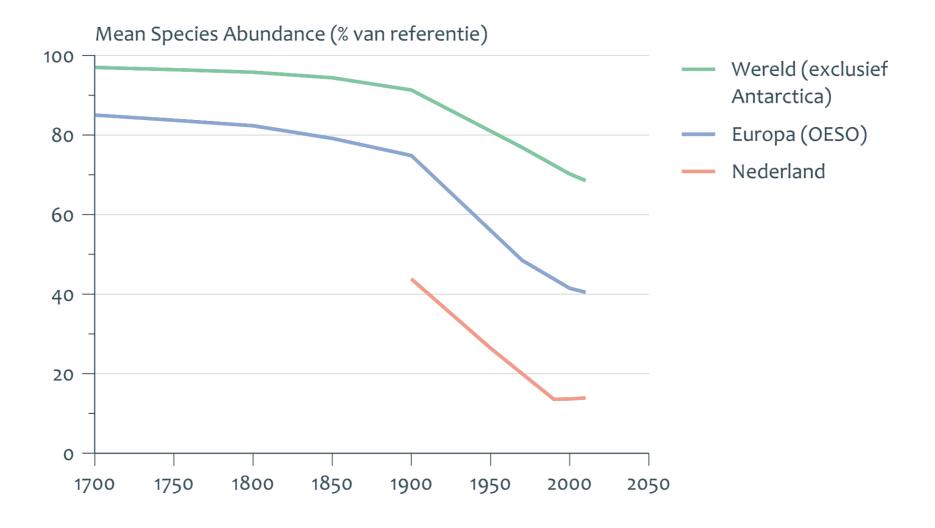


Brueghel the Elder and Pieter Paul Rubens, c. 1615 source: www.wikipedia.com

# Nature as profit | Globalization

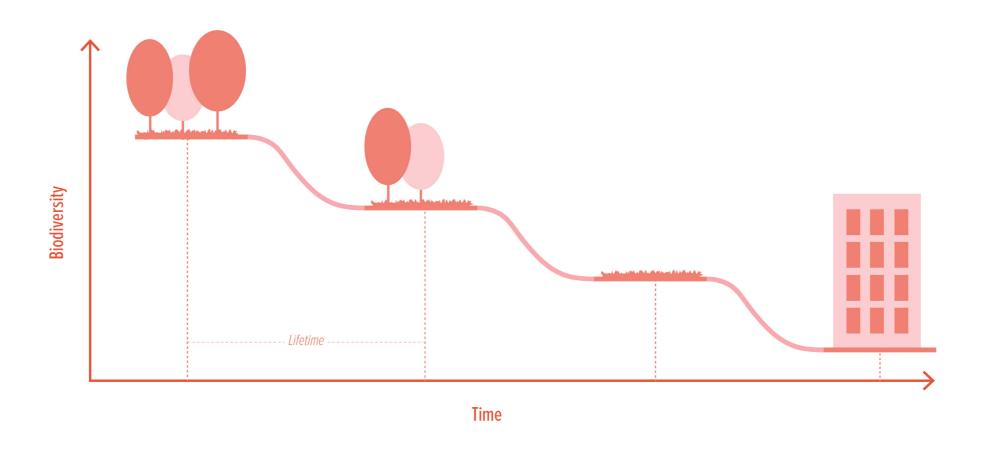


### Nature as profit | The Great decline

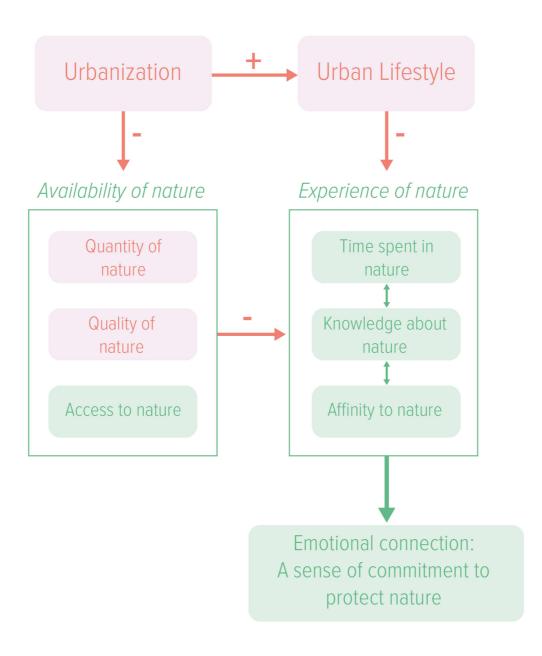


Between 1900 and 2013, there has been a biodiversity loss from 43% to 17% in the Netherlands, Planbureau voor de Leefomgeving, 2013.

# Extinction of experience | Shifting baseline



### Extinction of experience

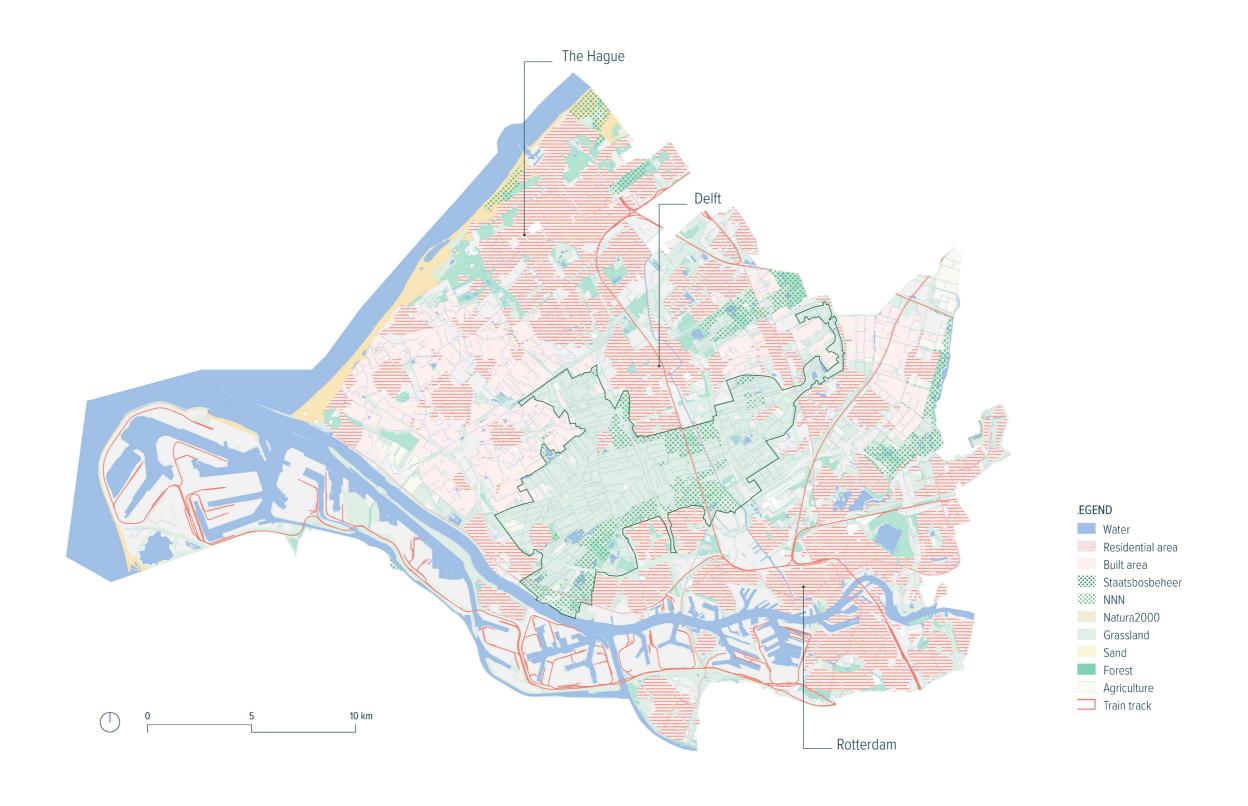


Model of how nature-based science can reduce the extinction of experience. (Karouzos, 2018, p406)

#### South-Holland | Staatsbosbeheer

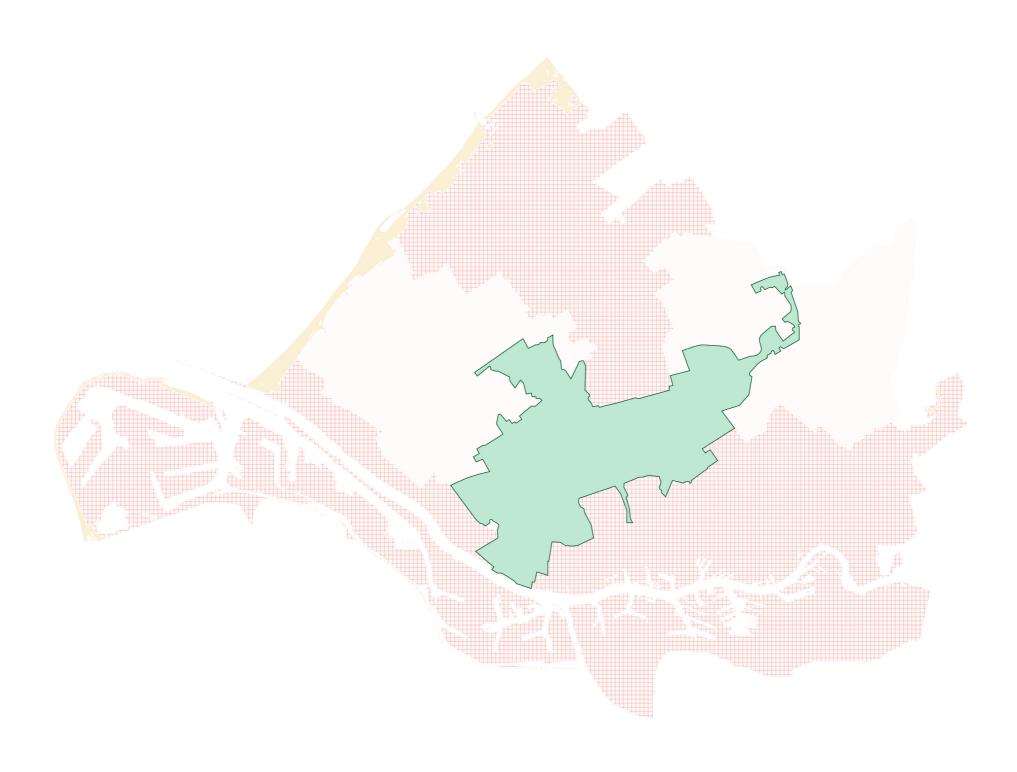


## Metropolitan region | Rotterdam-The Hague

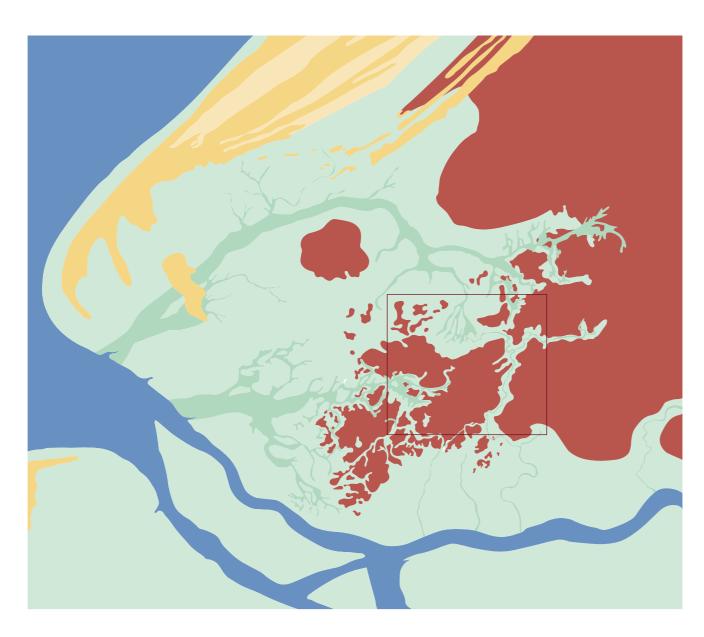


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# Metropolitan region | Midden-Delfland



## Midden-Delfland | Original Landscape



Maasmond gebied 500 BC, Atlas van de Schie (2016)

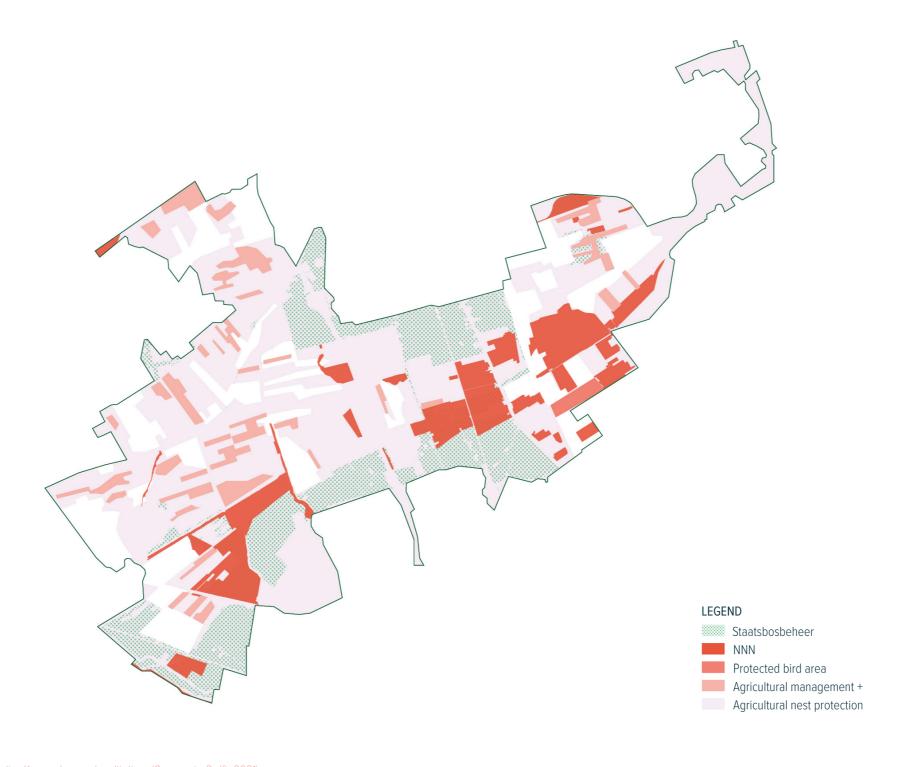


P5 22-09-2022 18/10

## Midden-Delfland | Cultivated landscape



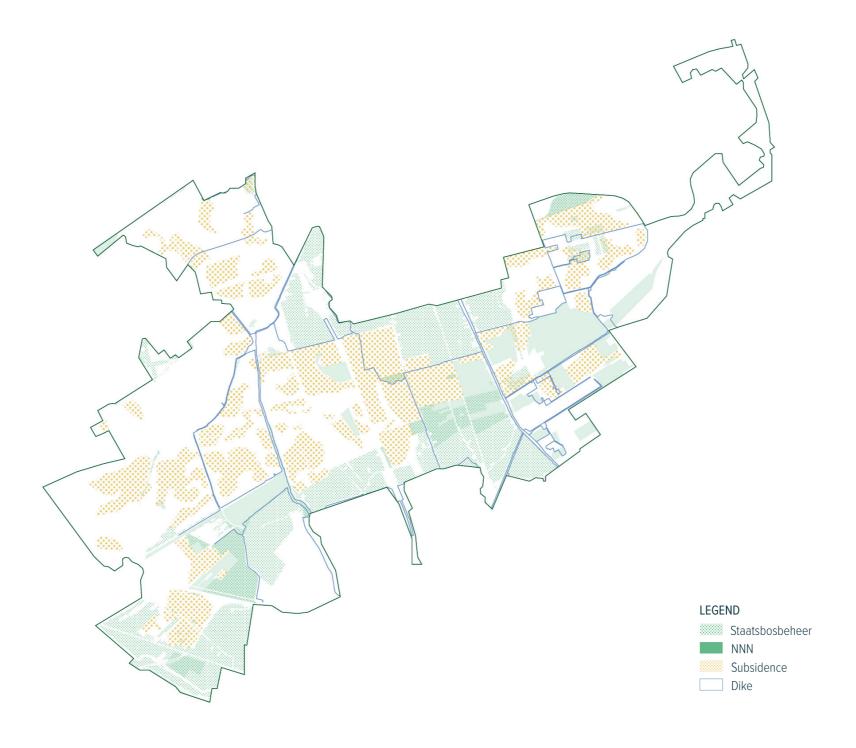
## Midden-Delfland | Fragmentation



Biodiversiteit - Kenmerken en kwaliteiten, (Gemeente Delft, 2021)

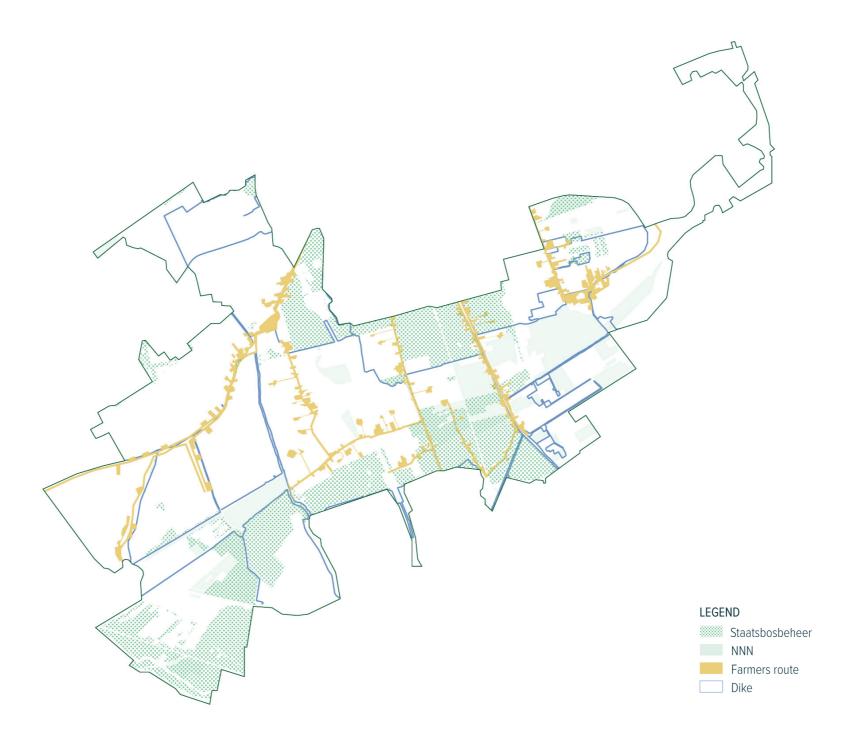
**20/108** 

### Midden-Delfland | Subsidence



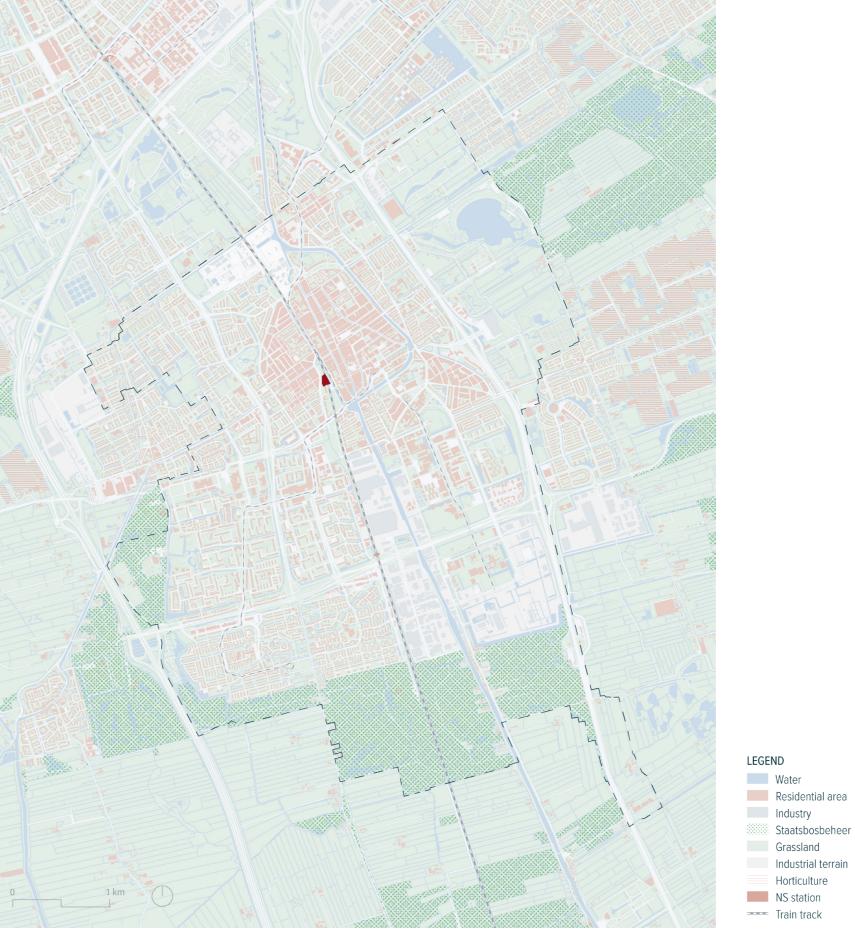
P5 22-09-2022 21/108

#### Midden-Delfland | Unreached Potential



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## Delft

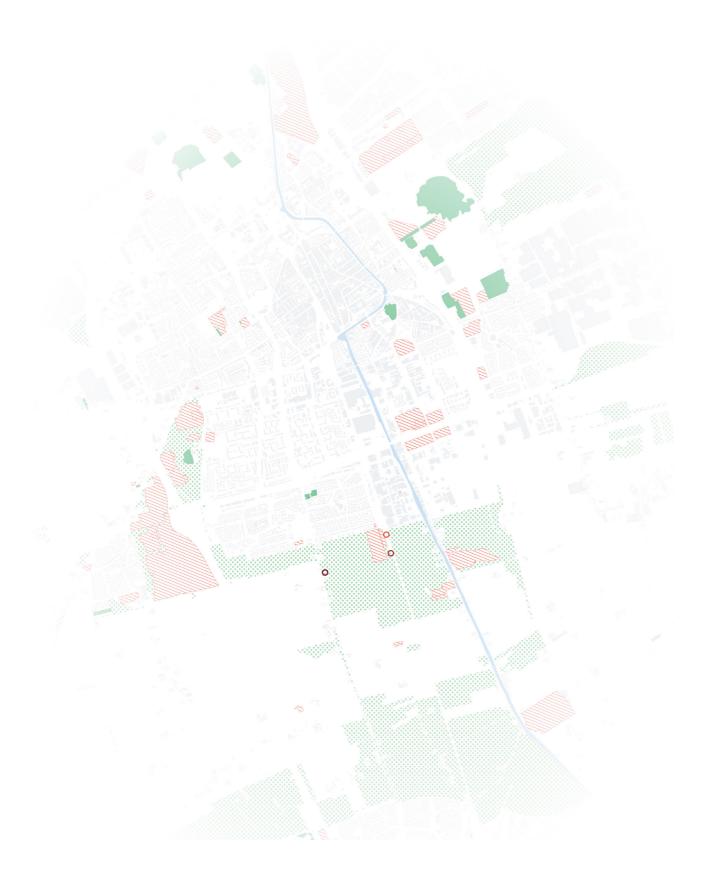


#### Staatsbosbeheer Delft | Abtswoudse Bos



**5** 22-09-2022

# Abtswoudse Bos | Lack of public program









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#### Abtswoudse Bos | Routes for slow traffic



Unattrative zones for slow traffic, Delft (UEEC lab, 2021)

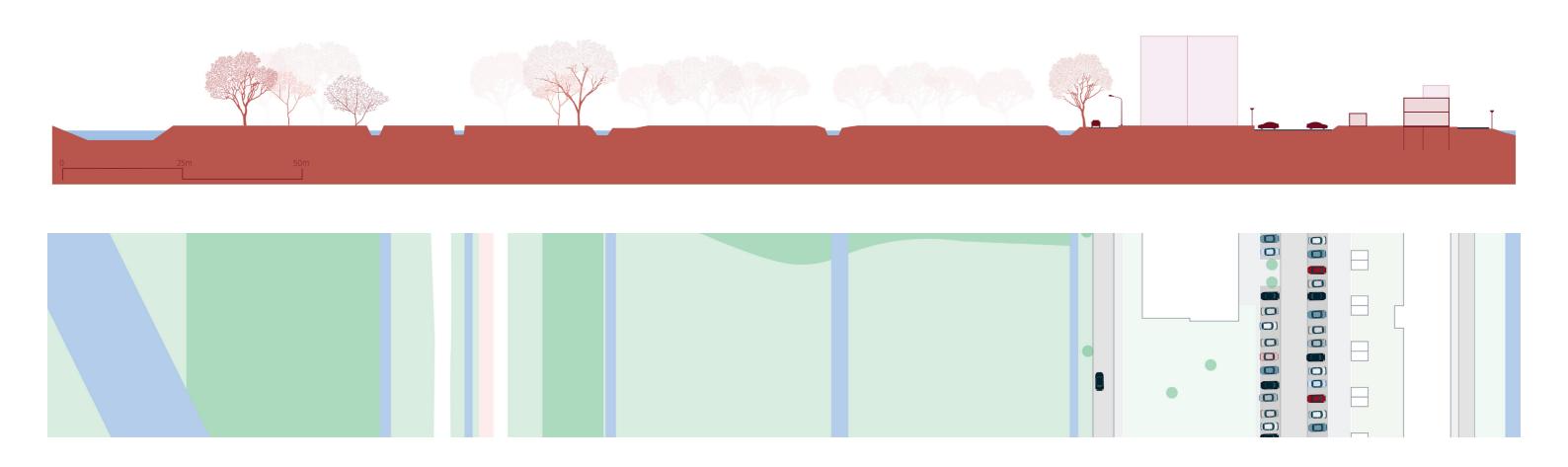




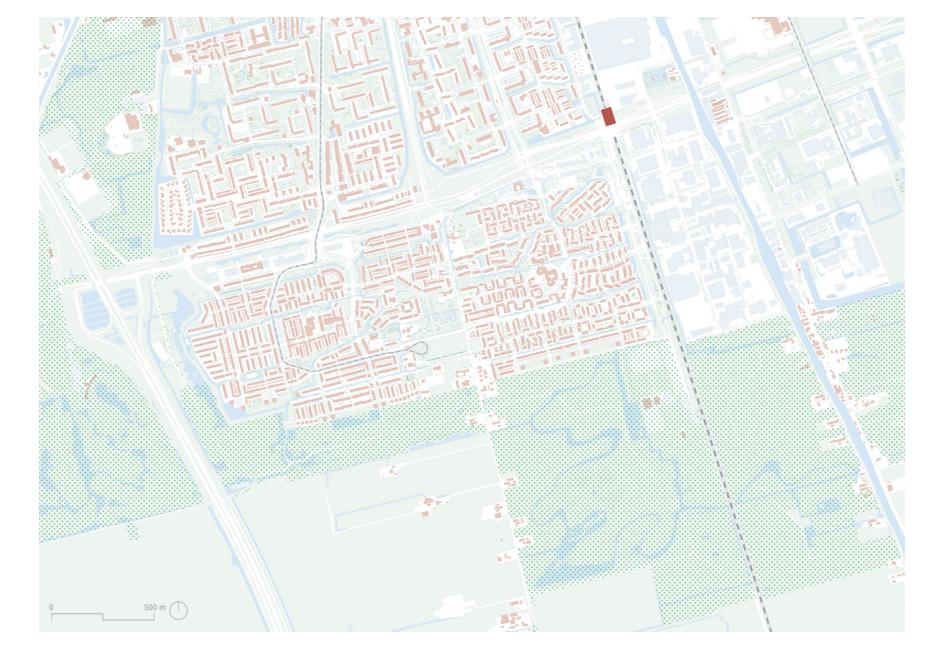


**26/108** 

#### Transition Abtswoudse Bos - Tanthof



## Tanthof





## Tanthof



## Tanthof | Eco-neighbourhood

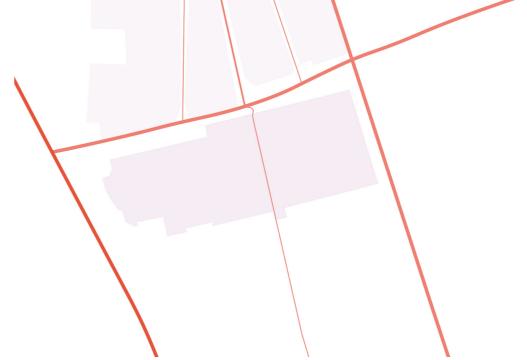


Van den Broek en Bakema, Plan Tanthof Delft, 1969. Collectie Het Nieuwe Instituut, BROX

P5 22-09-2022 30/108

### Tanthof | Enclave

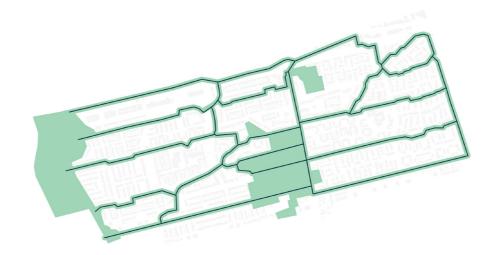




P5 22-09-2022 31/108

# Tanthof | Fenced green

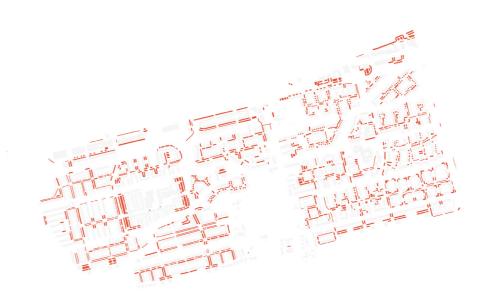




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# Tanthof | Parking (public) space

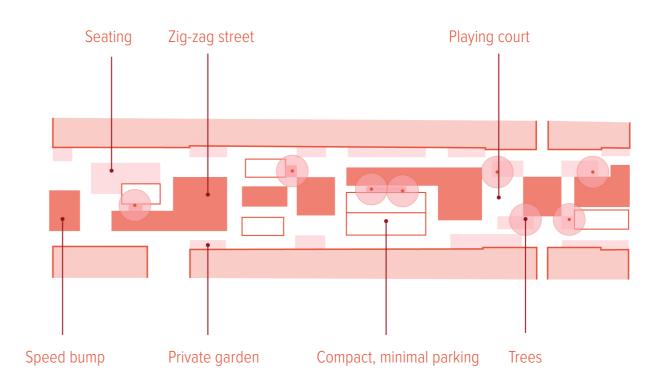




### Woonerf



Woonerf in de Vogelenbuurt in Utrecht, 2018, z.d. source: www.anwb.n

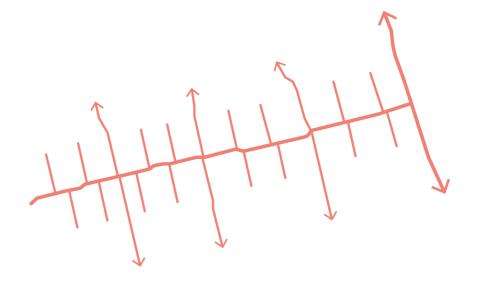


Woonerf: development in plannina and desian of dutch 'woonerven'. (Bach. 1983)

**34/108** 

## Woonerf | Cul de sac

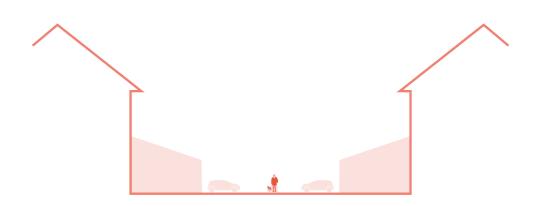




**5** 22-09-2022

#### Woonerf | Universal street

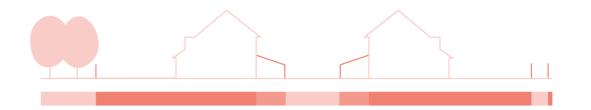




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# Woonerf | Privacy





# Woonerf | Layout of the house





## Woonerf | Interaction





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## Tanthof | Introvert



# Human-Nature Dualism





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## Oneness



"If the planet is a garden, we are all gardeners – perhaps not aware of it, yet the choices and lifestyles of each of us have an impact on the biosphere and on our collective, vital space.

The gardener discovers something new in their garden every day.

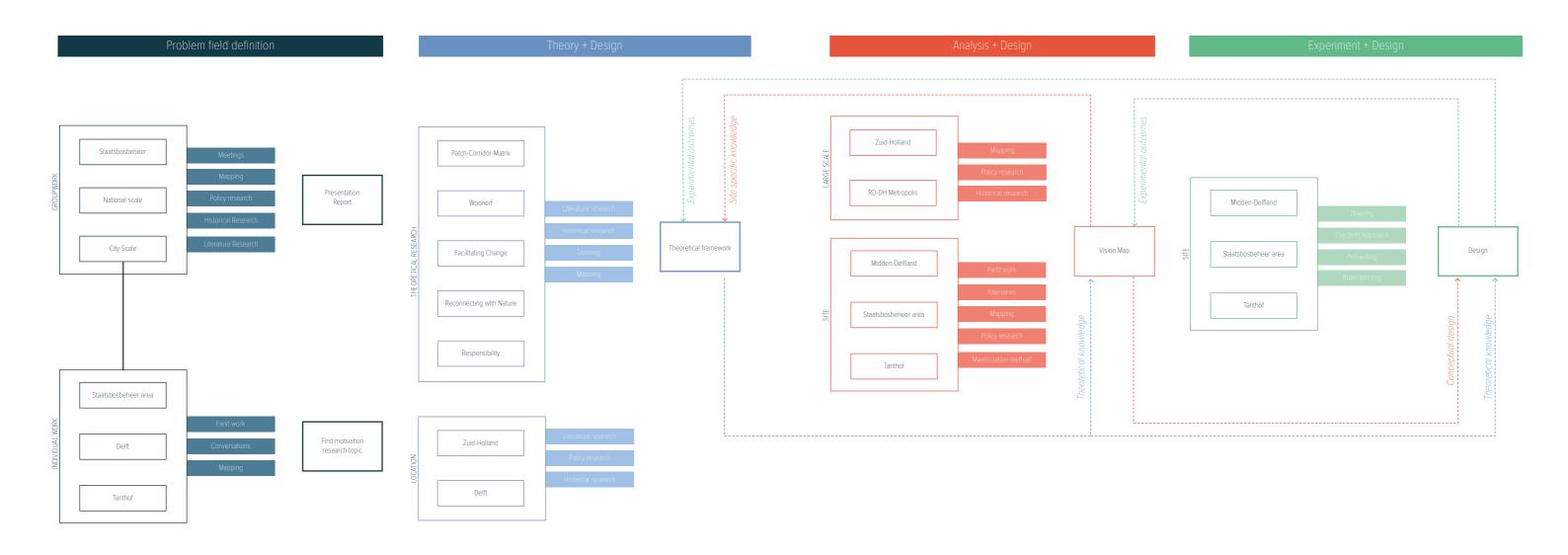
They are in constant dialogue with all of diversity."

-Gilles Clèment, 2021

#### Research Question

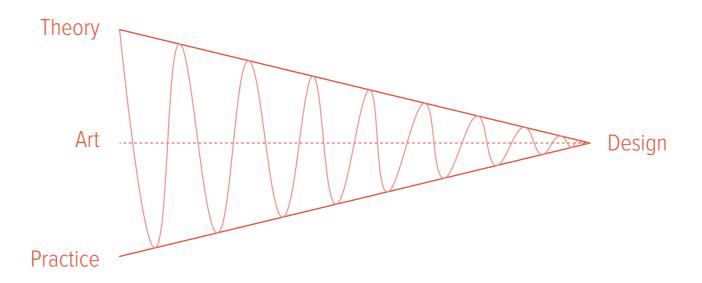
How can urban design of the **woonerf** type in Tanthof contribute to **reconnecting people** to the natural landscape system of Midden-Delfland, by facilitating meaningful **gardens of responsibility**?

#### Research | Methods

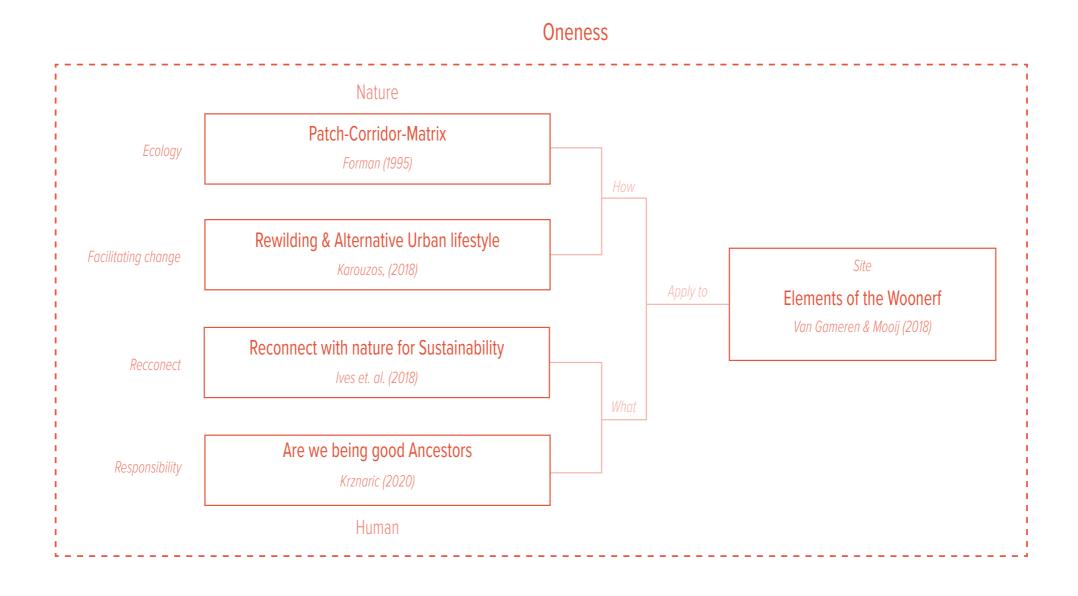


**5** 22-09-2022 **45/108** 

# Research | Design process



#### Research | Theoretical framework



## Theory I Reconnecting with nature











Material

Experience

Cognitive

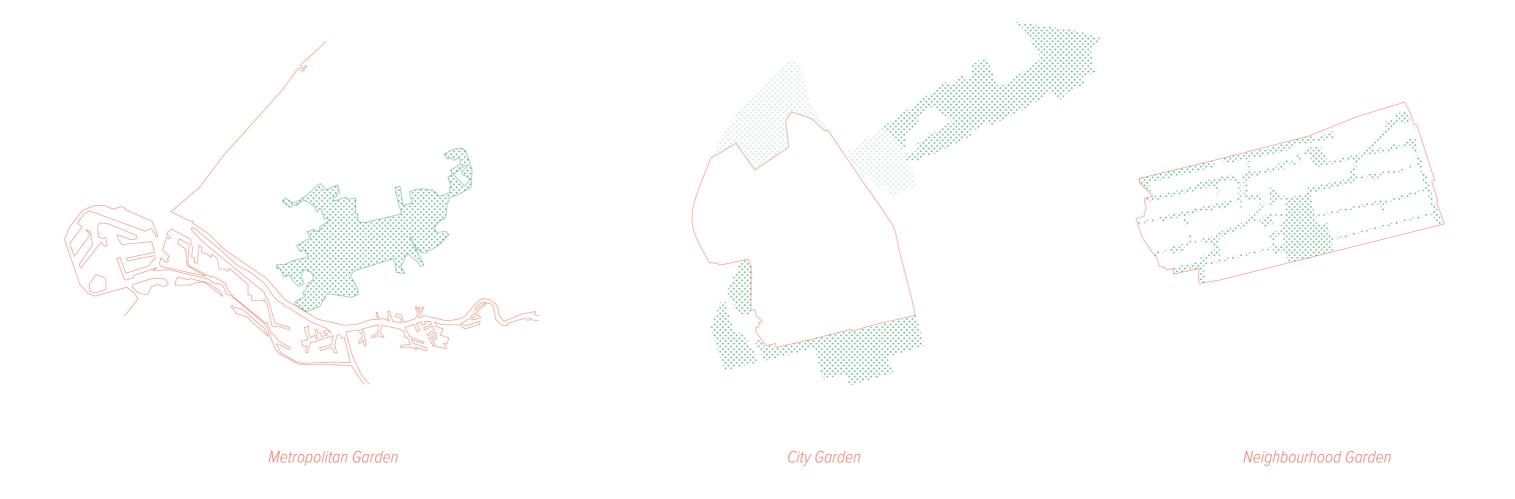
Emotional

Philosophical

## Responsibility | Intergenerational growth

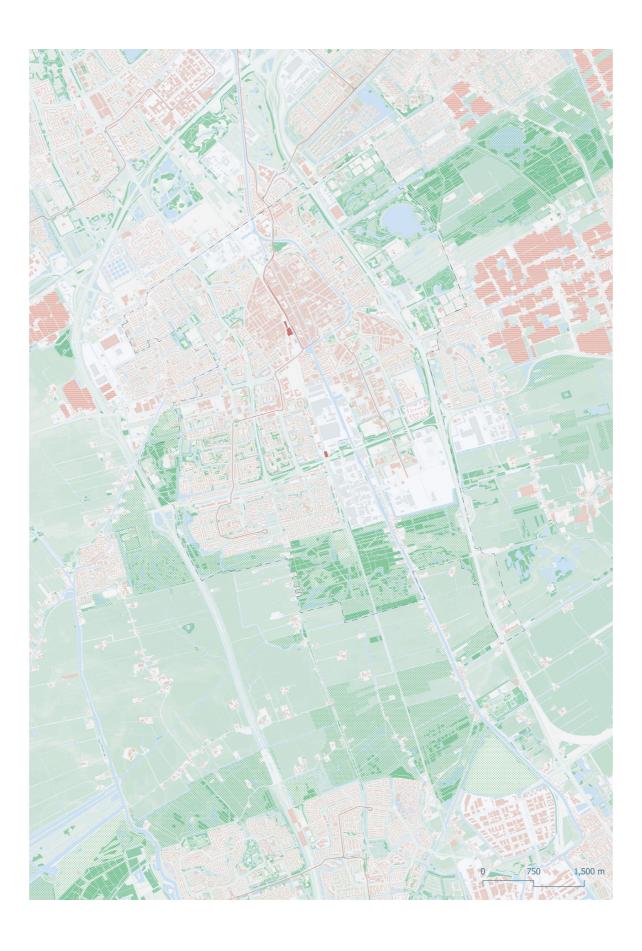


# Gardens of Responsibility



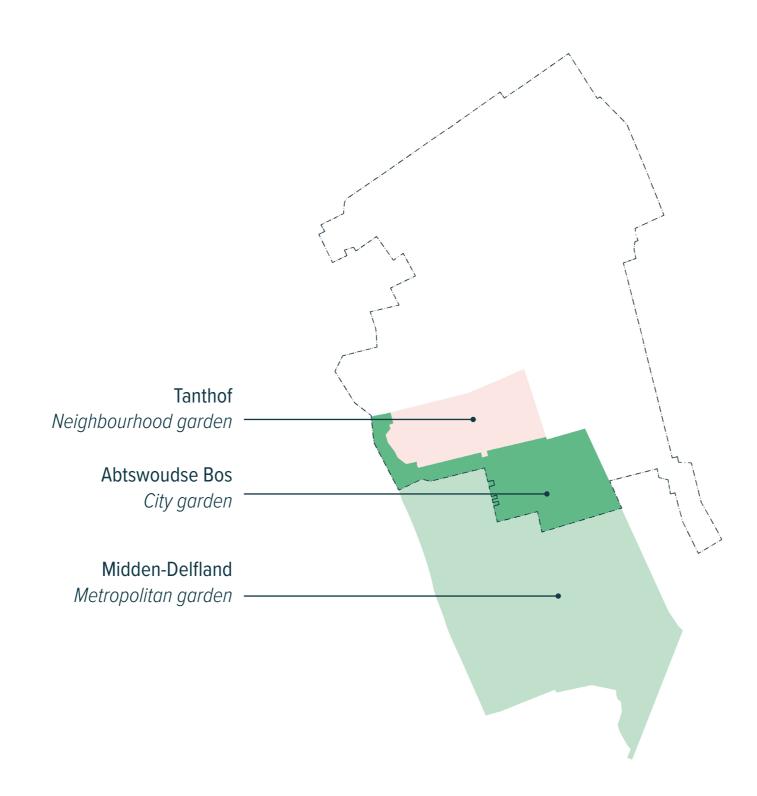
P5 22-09-2022 50/108

# Design site



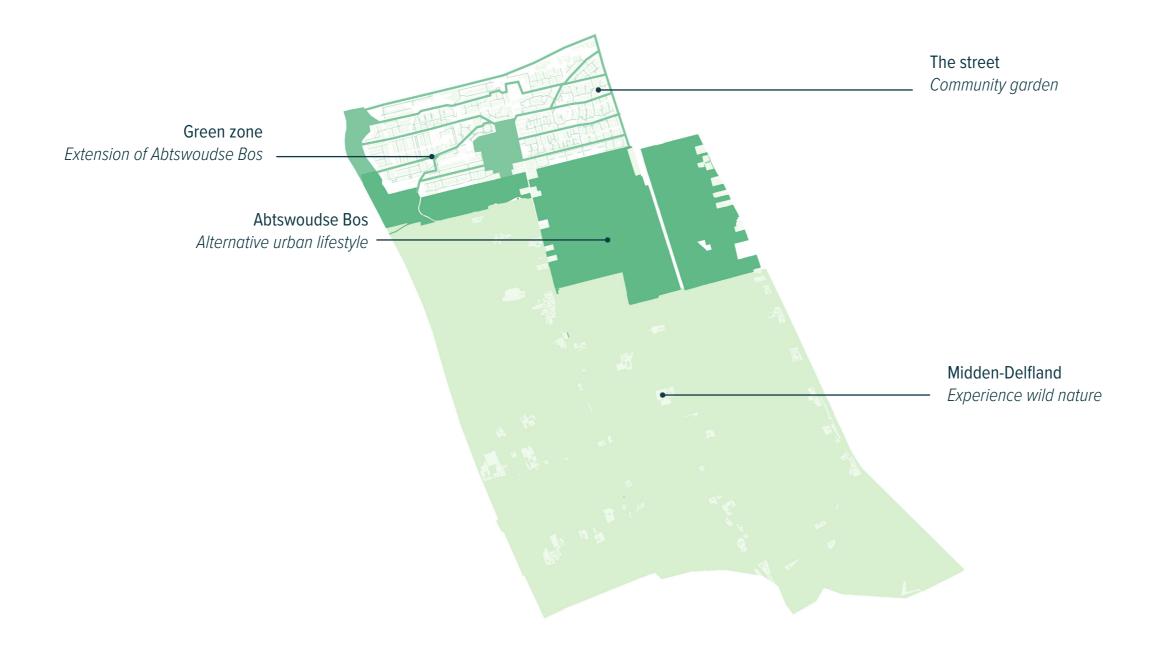
P5 22-09-2022 51/108

## Design site | Territory



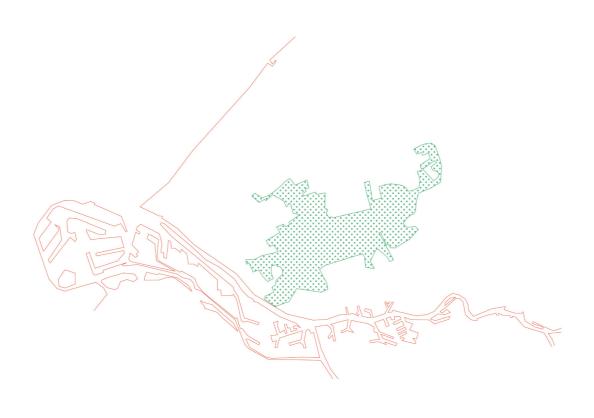
P5 22-09-2022 52/108

## Design site | Public space



P5 22-09-2022 53/108

## How to reconnect Tanthof to the natural system of Midden-Delfland in a meaninful way?



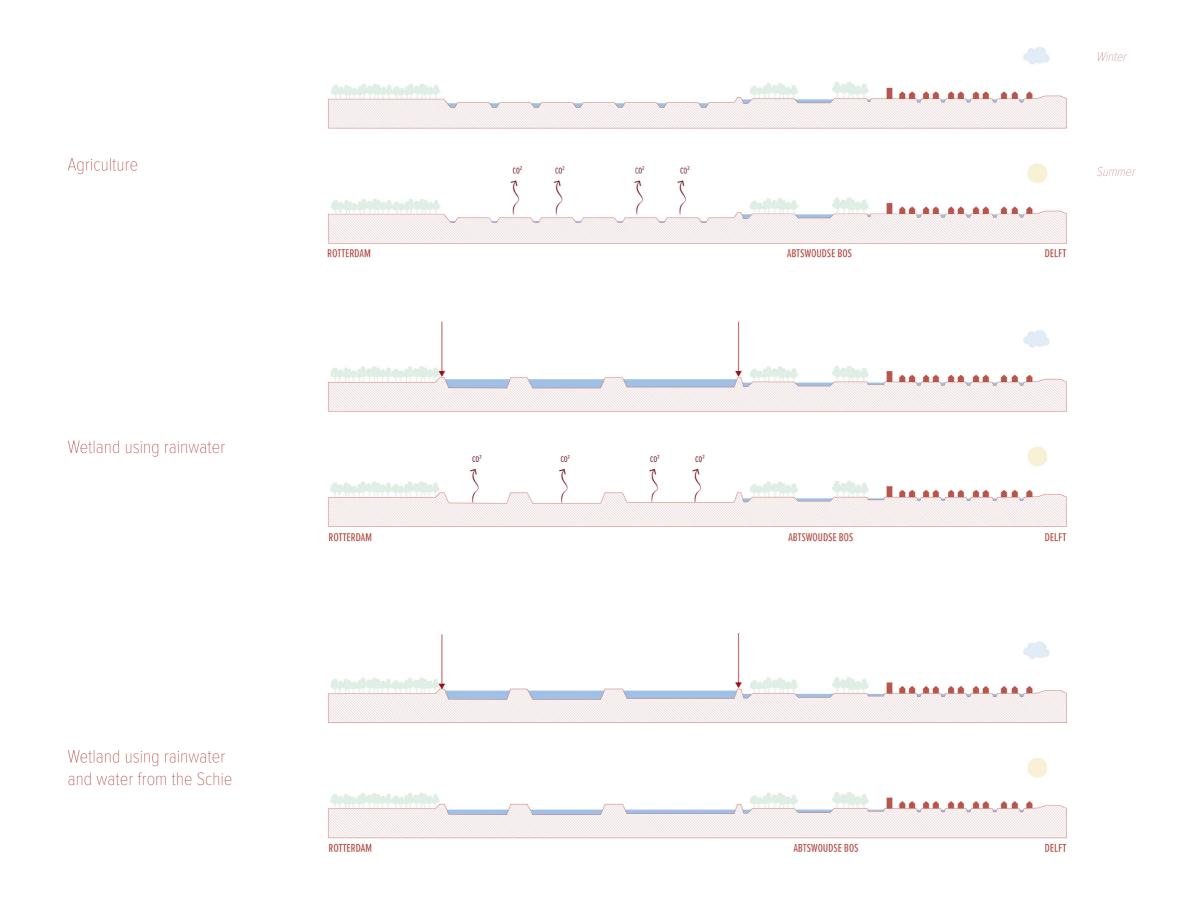
Metropolitan Garden

## Midden-Delfland | Geomorphology



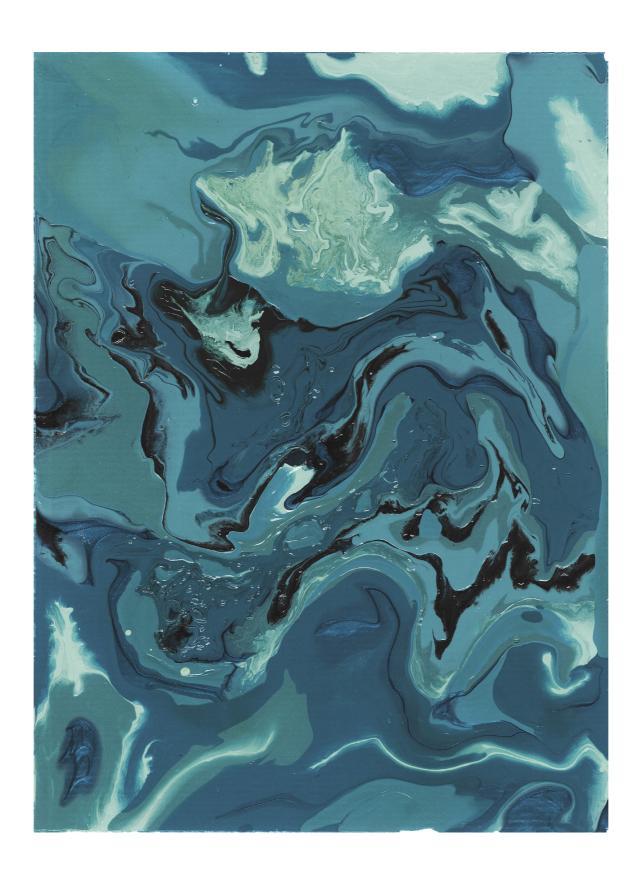
P5 22-09-2022 55/108

#### Midden-Delfland | Paradox of control



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# Midden-Delfland | Designing for autonomy



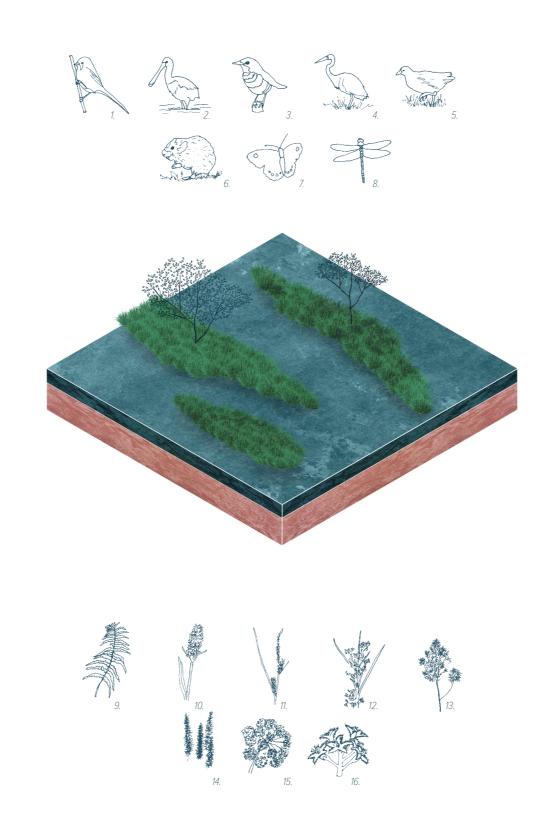
# Midden-Delfland | Natural landscape system



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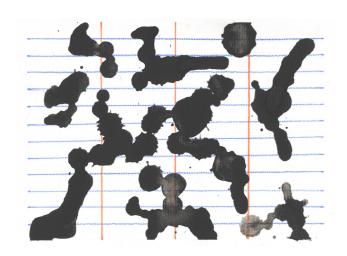
## Midden-Delfland | Dynamic Wetland

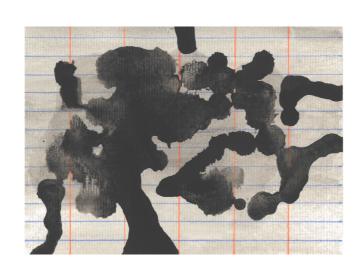
- 1. Bearded reedling
- 2. Common spoonbill
- 3. Bluethroat
- 4. Purple heron
- 5. Waterhen
- 6. Root vole
- 7. Wall brown
- 8. Green hawker
- 9. Marsh fern
- 10. Southern marsh orchid
- 11. Slender sedge
- 12. Saw-sedge
- 13. Common meadow-rue
- 14. Common mare's-tail
- 15. Cowbane
- 16. Bogbean



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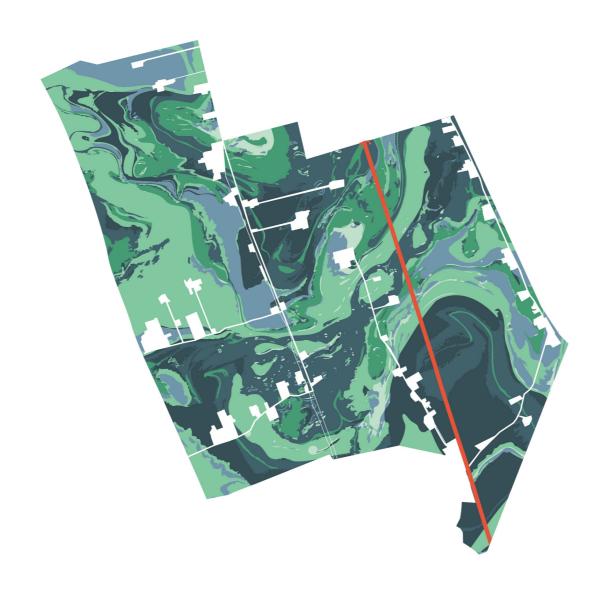
# Midden-Delfland | Palimpsest







# Midden-Delfland | Urban layer



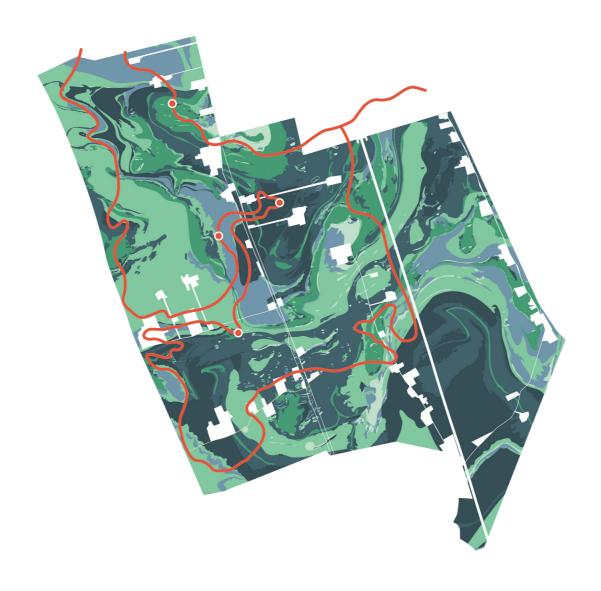
# Midden-Delfland | Cultural layer



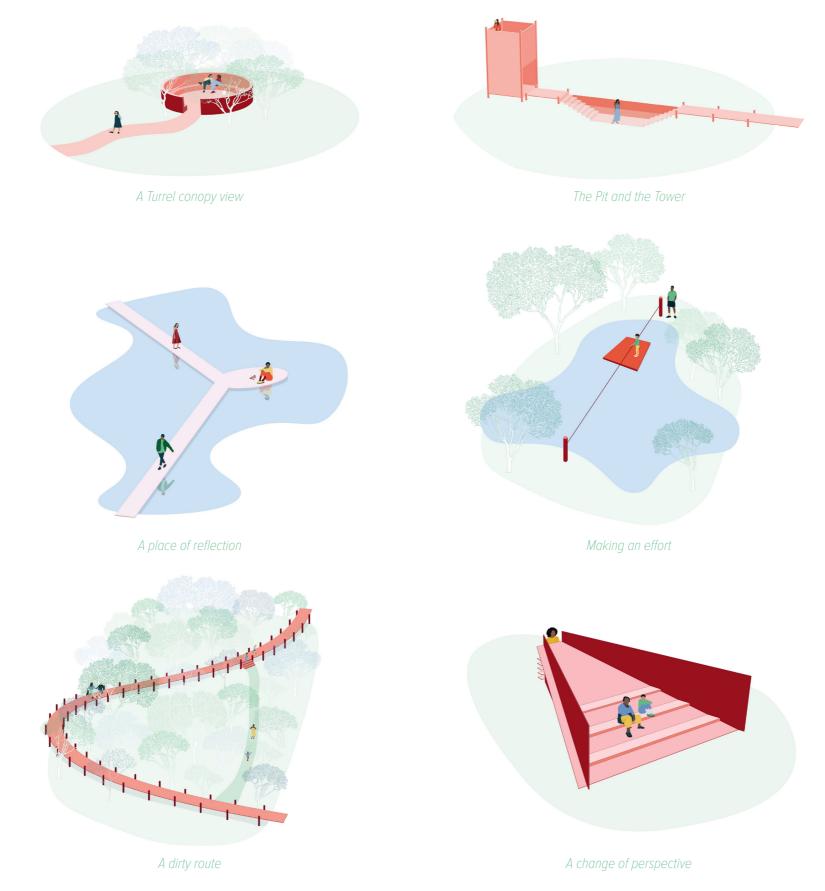


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# Midden-Delfland | Natural layer



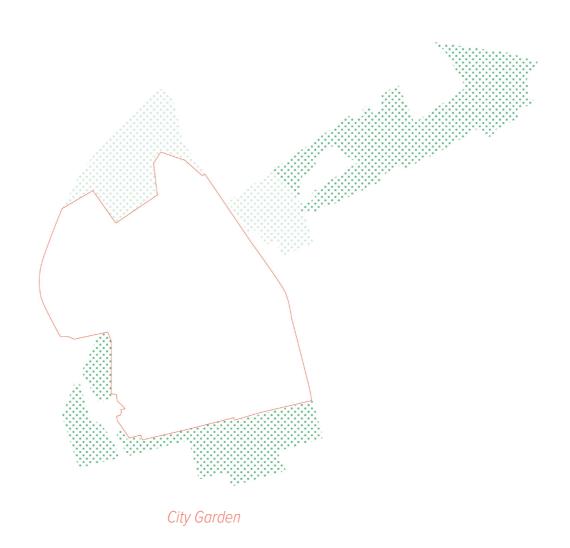
## Midden-Delfland | Know your place



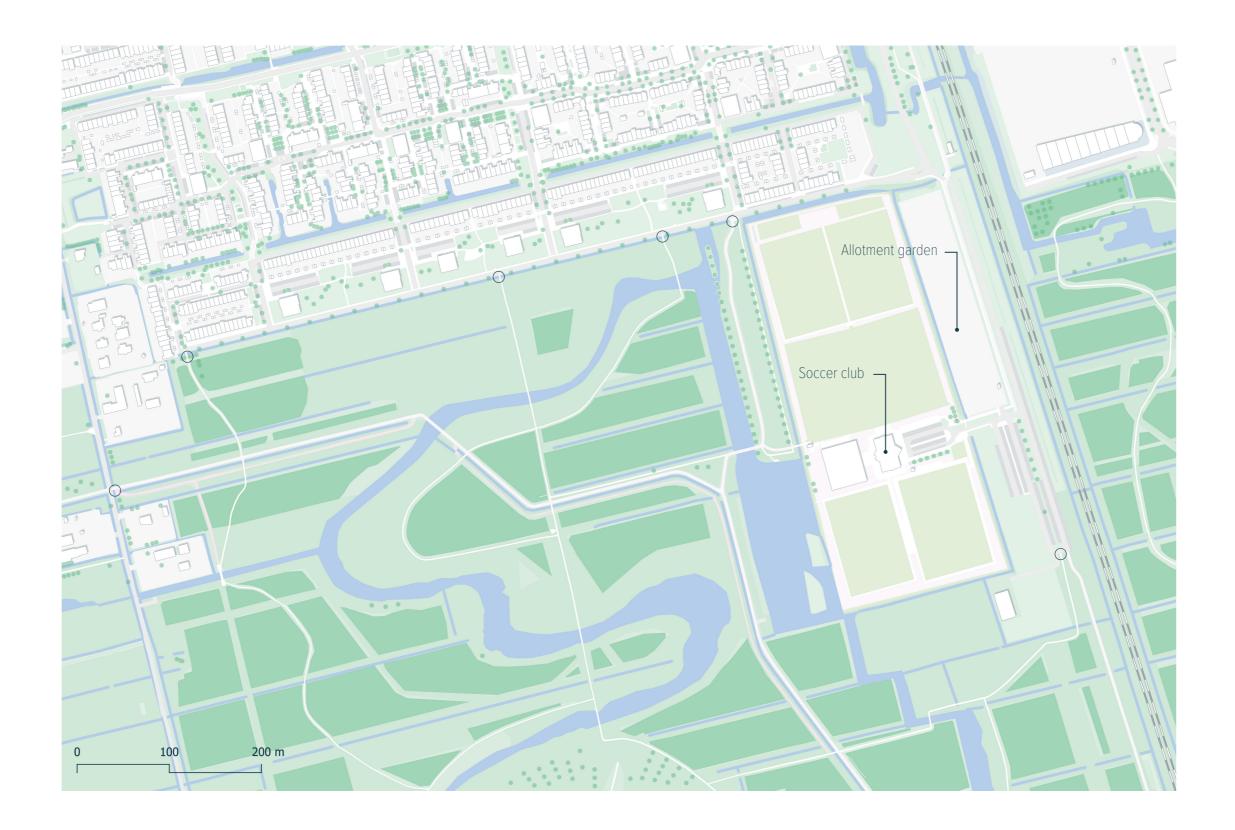
**P5** 22-09-2022 **65/108** 



# What interverntions in the Abtswoudse Bos could improve the connection between city and nature?



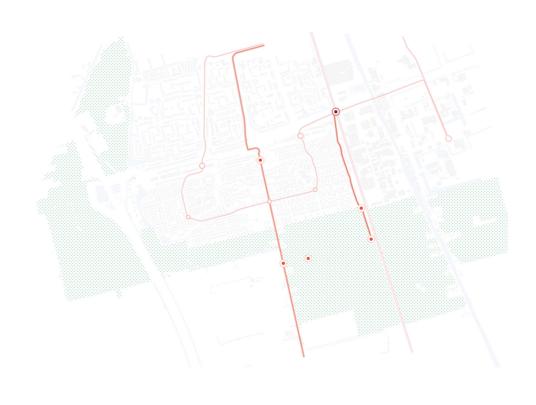
### Abtswoudse Bos



# Abtswoudse Bos | Design concepts



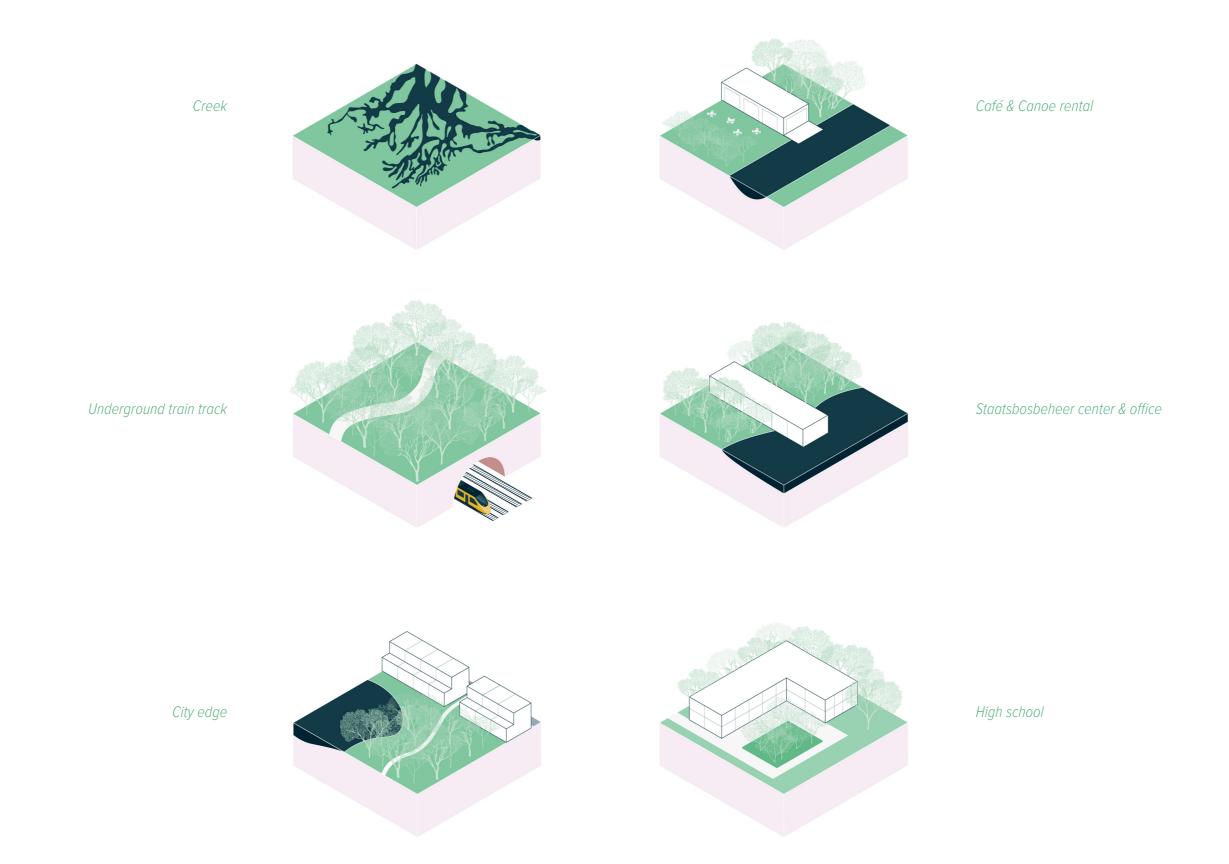
Soften the transition



Increase program

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#### Abtswoudse Bos | Interventions



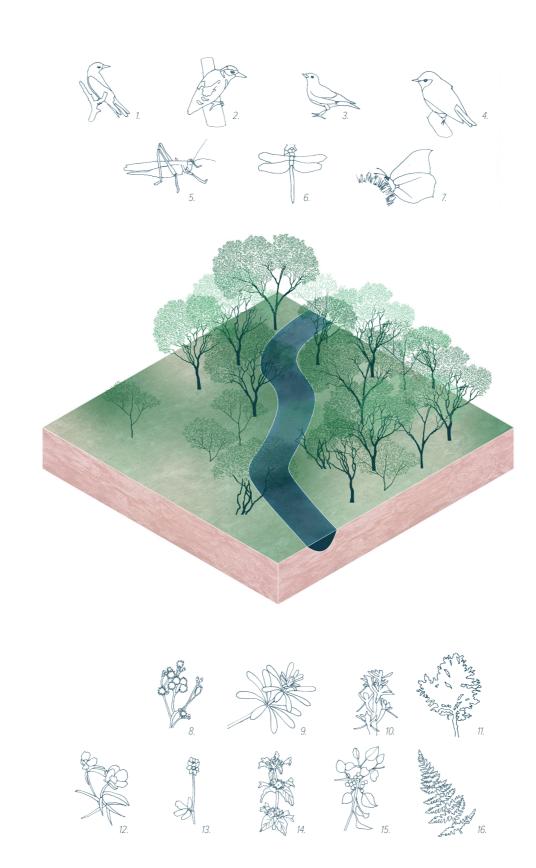
#### Abtswoudse Bos | Vision



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## Abtswoudse Bos I Clay forest

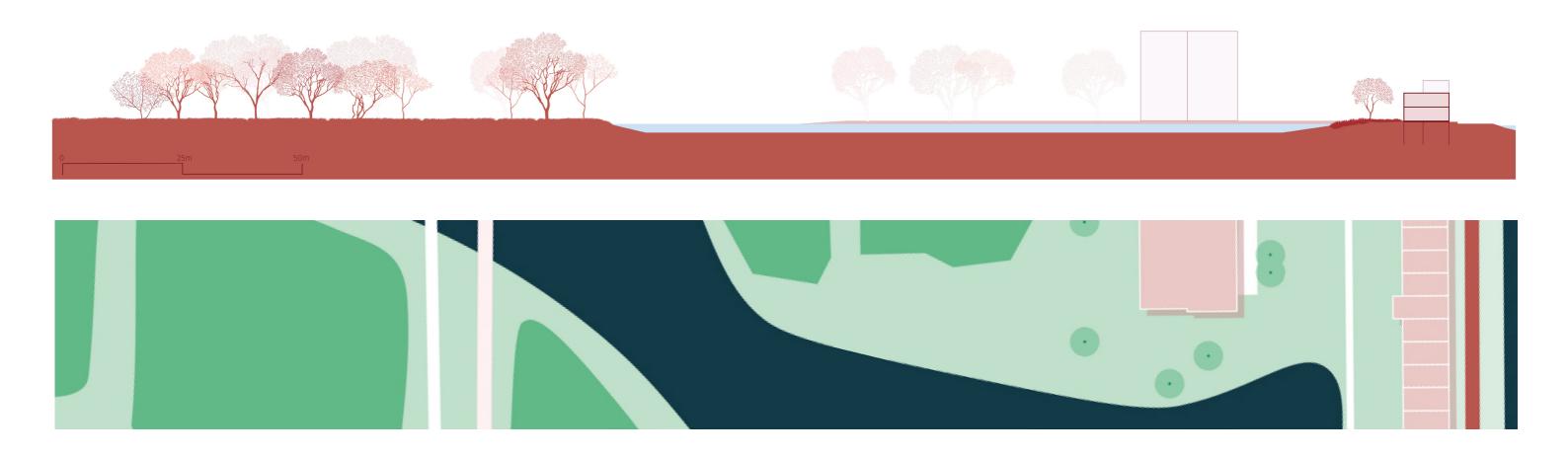
- 1. Golden oriole
- 2. Lesser spotted woodpecker
- 3. Woodlark
- 4. Wood wabler
- 5. Grasshopper
- 6. Dragonfly
- 7. Common brimstone
- 8. Field thistle
- 9. Cleavers
- 10. Fen orchid
- 11. Common alder
- 12. Greenland buttercup
- 13. Muskroot
- 14. Wild basil
- 15. European buckthorn
- 16. Brittle bladder fern





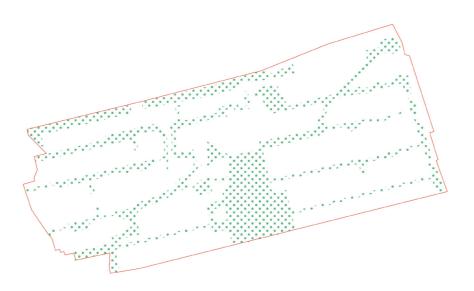
Collage of the Staatsbosbeheer centre in the Abtswoudse Bos. Source: Architecture for London (z.d.). Image altered by author

## Abtswoudse Bos | Soft transition





# What elements of the woonerf could be used to reconnect people to the natural system of Midden-Delfland?



Neighbourhood Garden

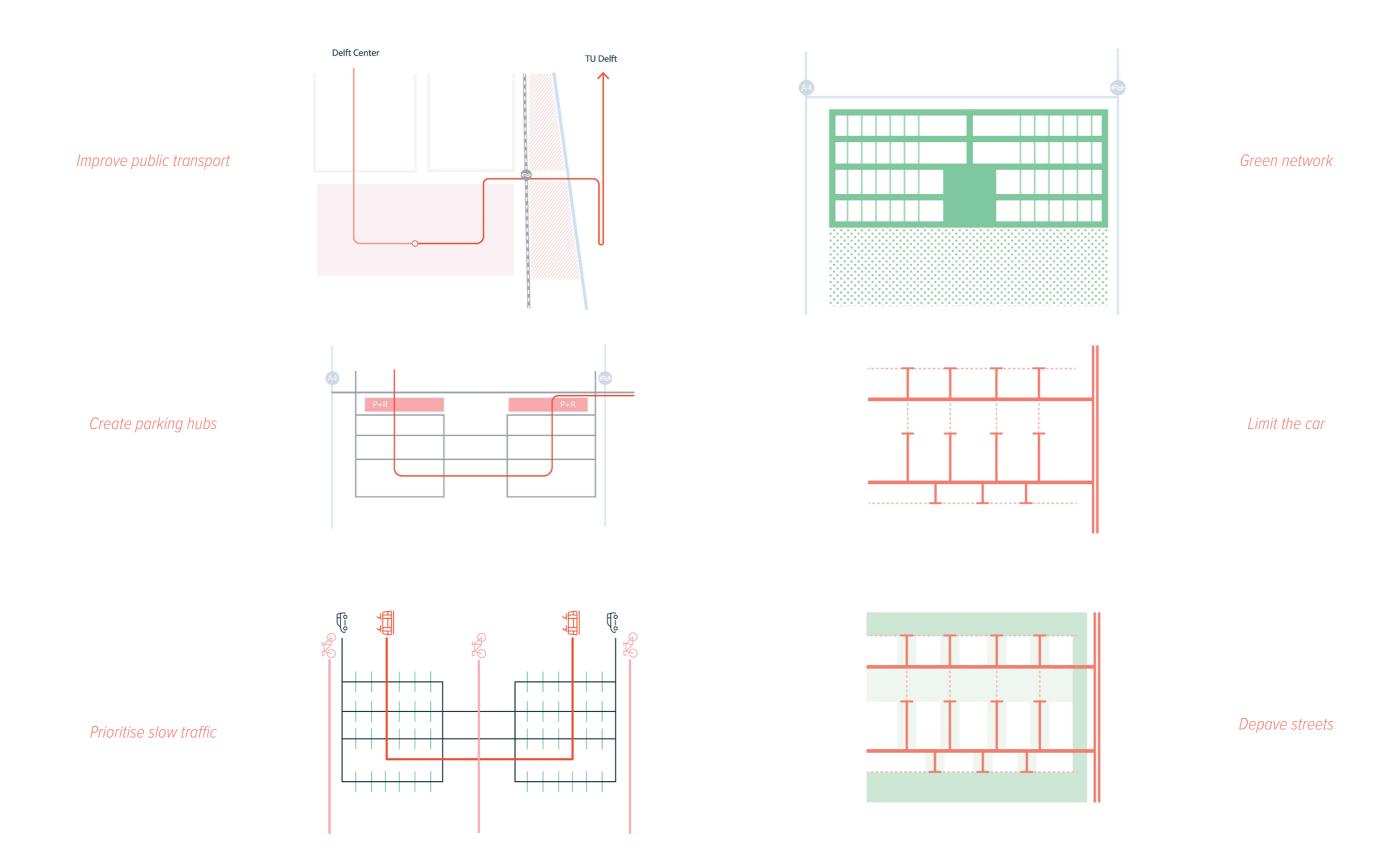
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# Tanthof



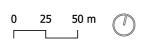
P5 22-09-2022 77/108

## Tanthof | Design principles



## Tanthof | Block West



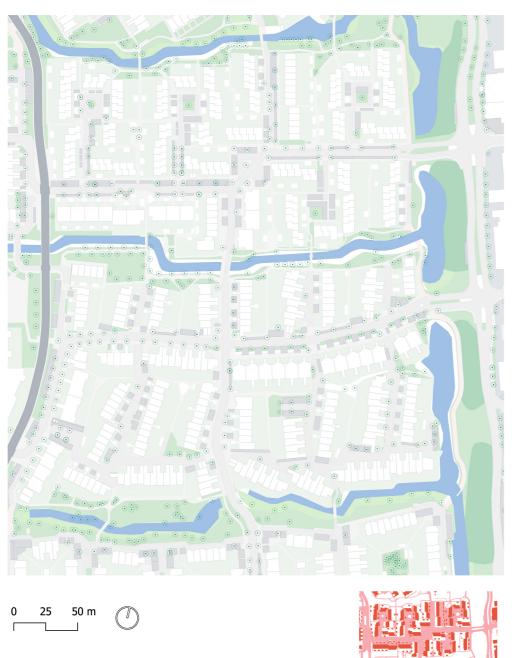








## Tanthof | Block East







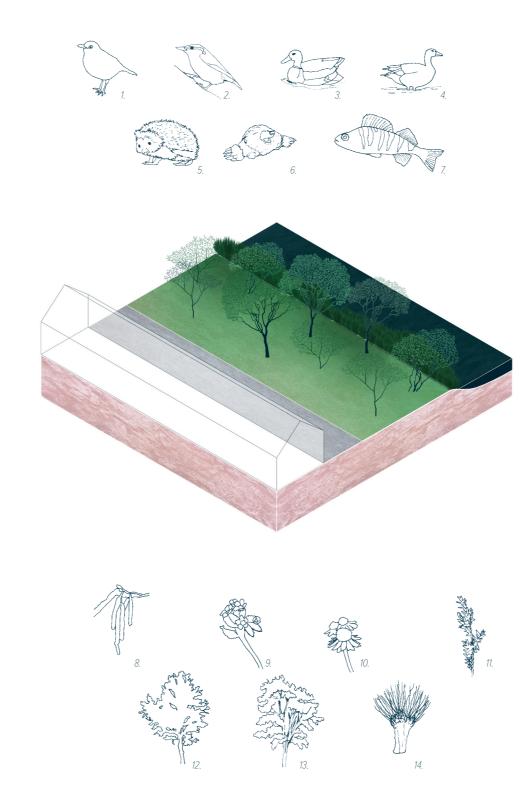


## Tanthof | Green zone

- 1. Blackbird
- 2. Nuthatch
- 3. Mallard
- 4. Gray goose 5. Hedgehog 6. Mole

- 7. Perch
- 8. Hazel

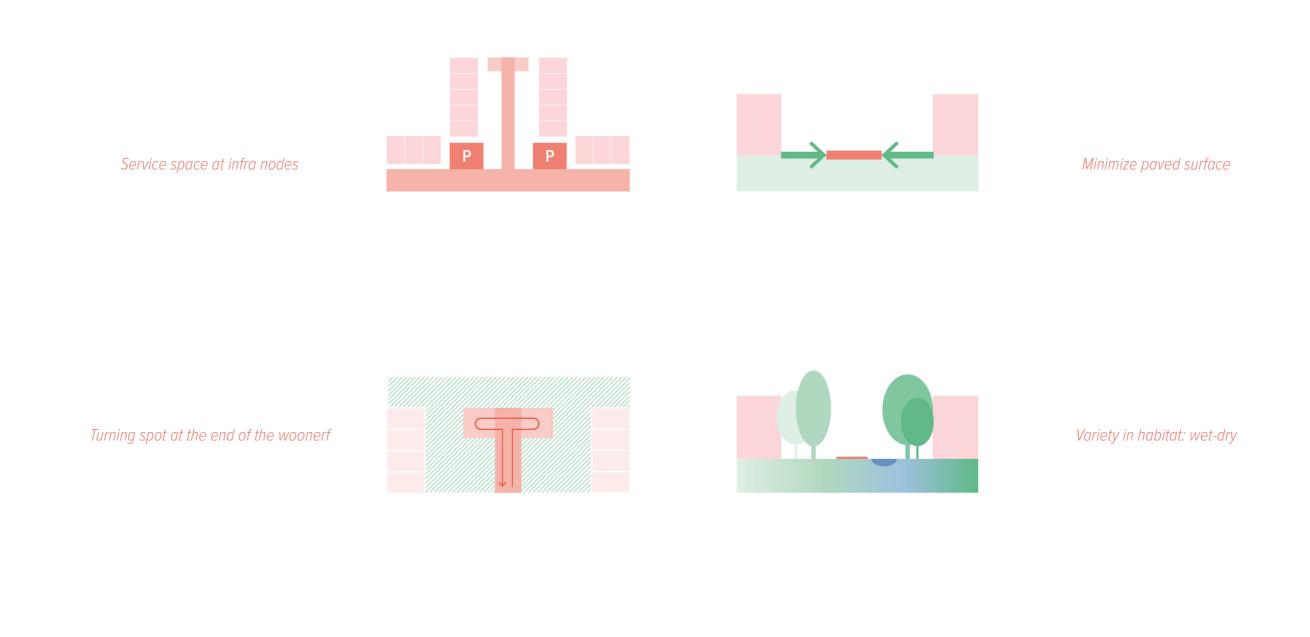
- 9. Forget-me-nots
  10. Chamomile
  11. Elongated sedge
  12. Common alder
- 13. Elm
- 14. Willow





# Woonerf | Design principles

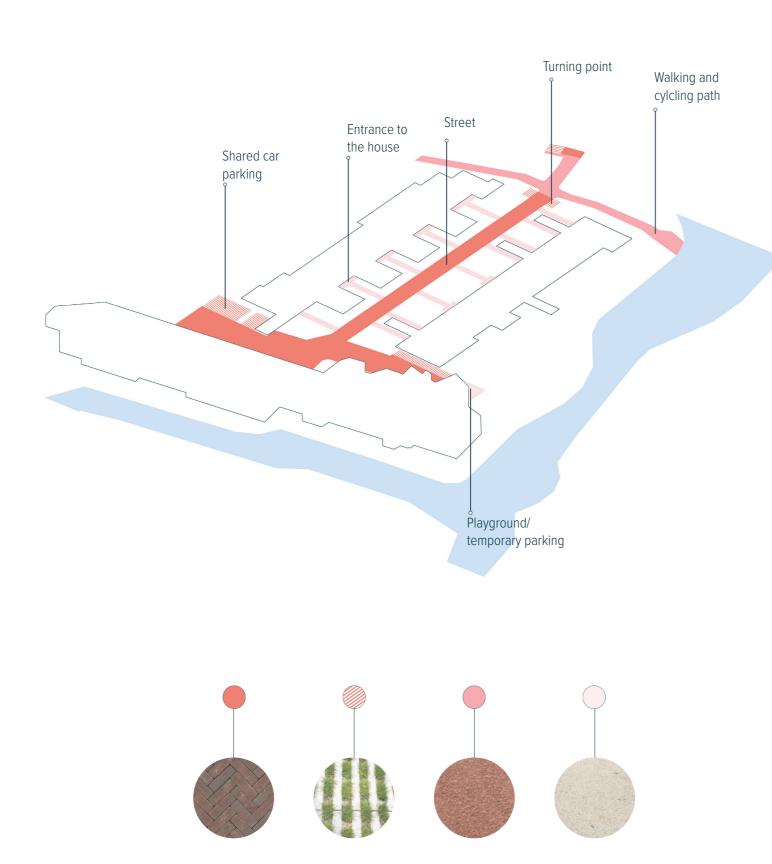
Community space over private space

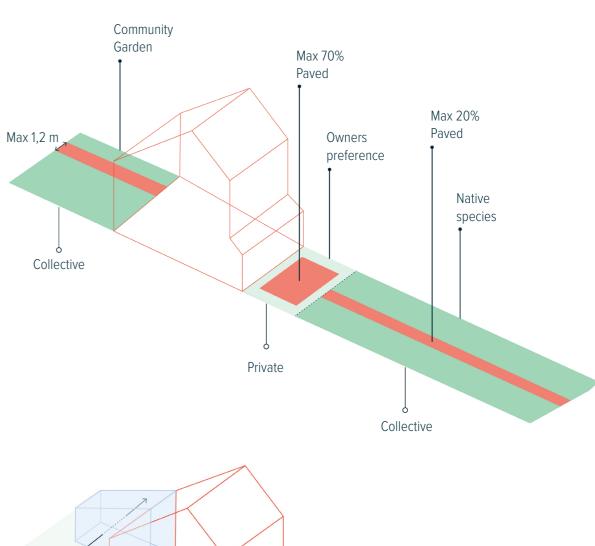


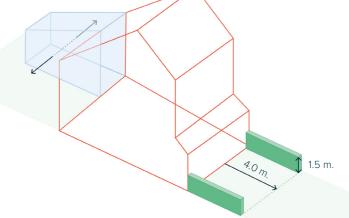
P5 22-09-2022

Composition of the garden adapts to the composition of the users

## Woonerf | Design rules

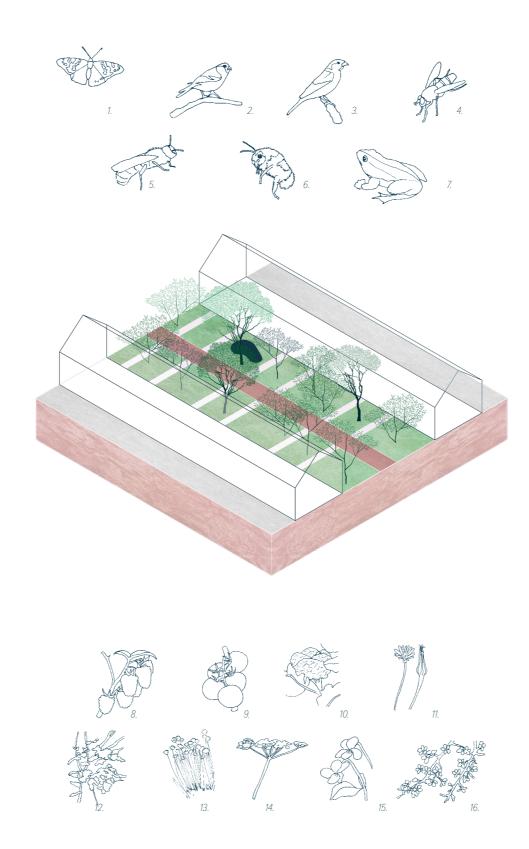


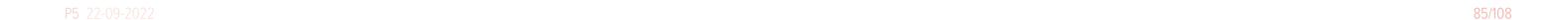




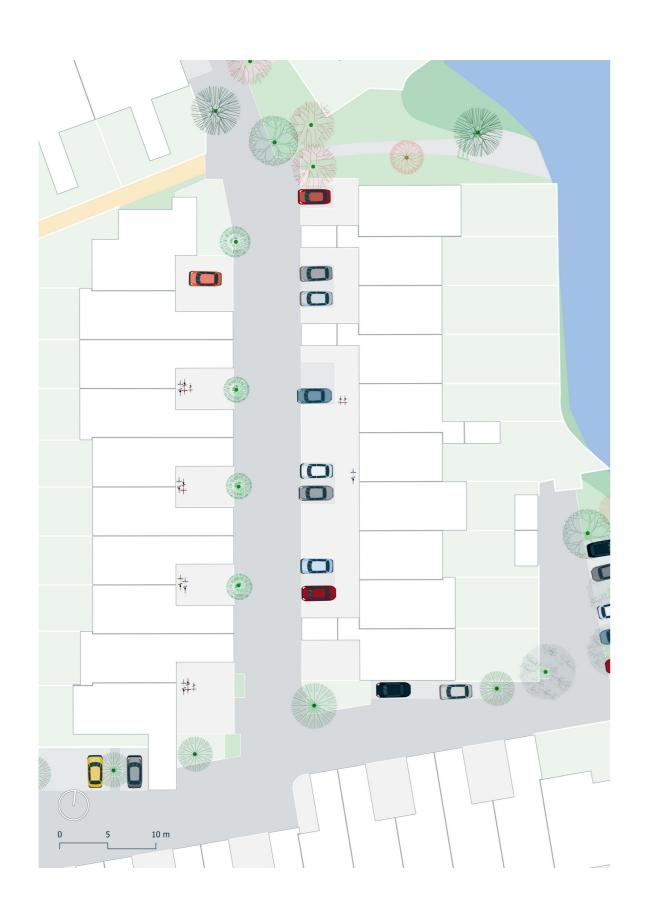
## Woonerf | Community garden

- 1. Thistle butterfly
- 2. Bullfinch
- 3. House sparrow
- 4. Hoverfly
- 5. Solitary bee
- 6. Bumblebee
- 7. Common water frog
- 8. Raspberry
- 9. Tomato
- 10. Broccoli
- 11. Purple salsify
- 12. Hawthorn
- 13. Chives
- 14. Parsnip
- 15. Common violet
- 16. Blackthorn





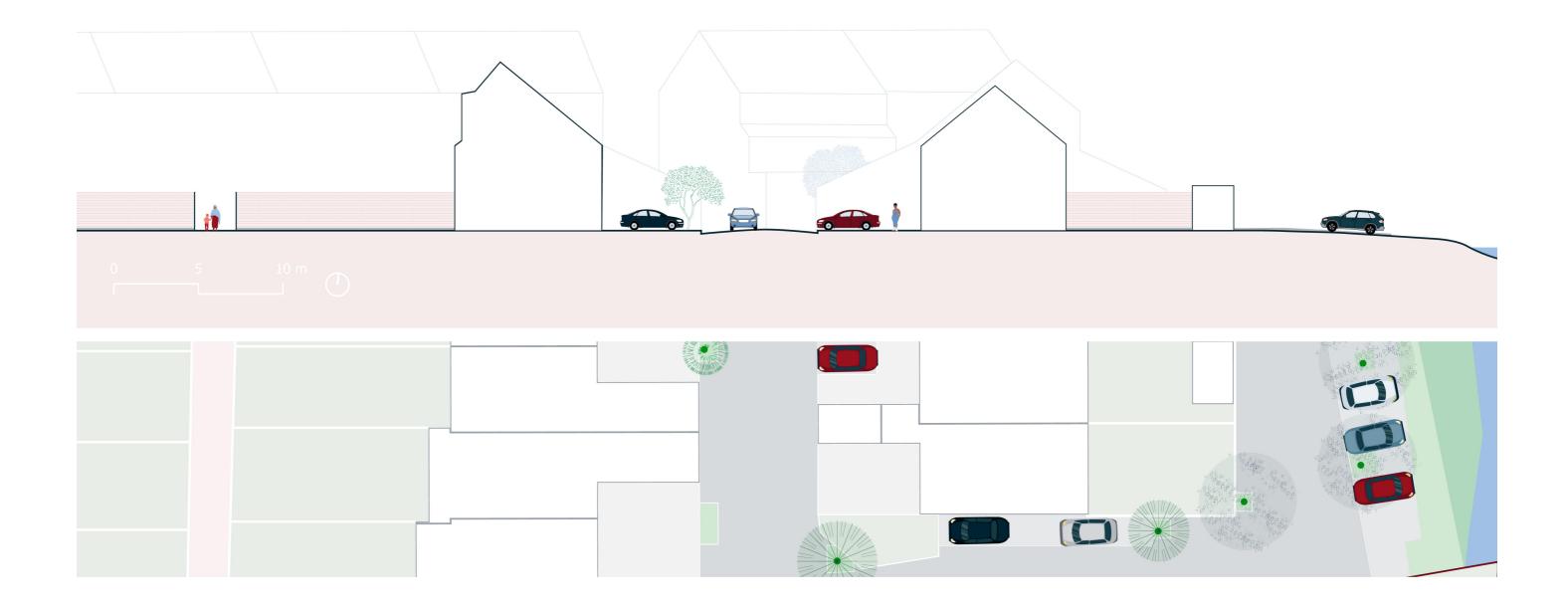
## Woonerf | Wielewaalstraat





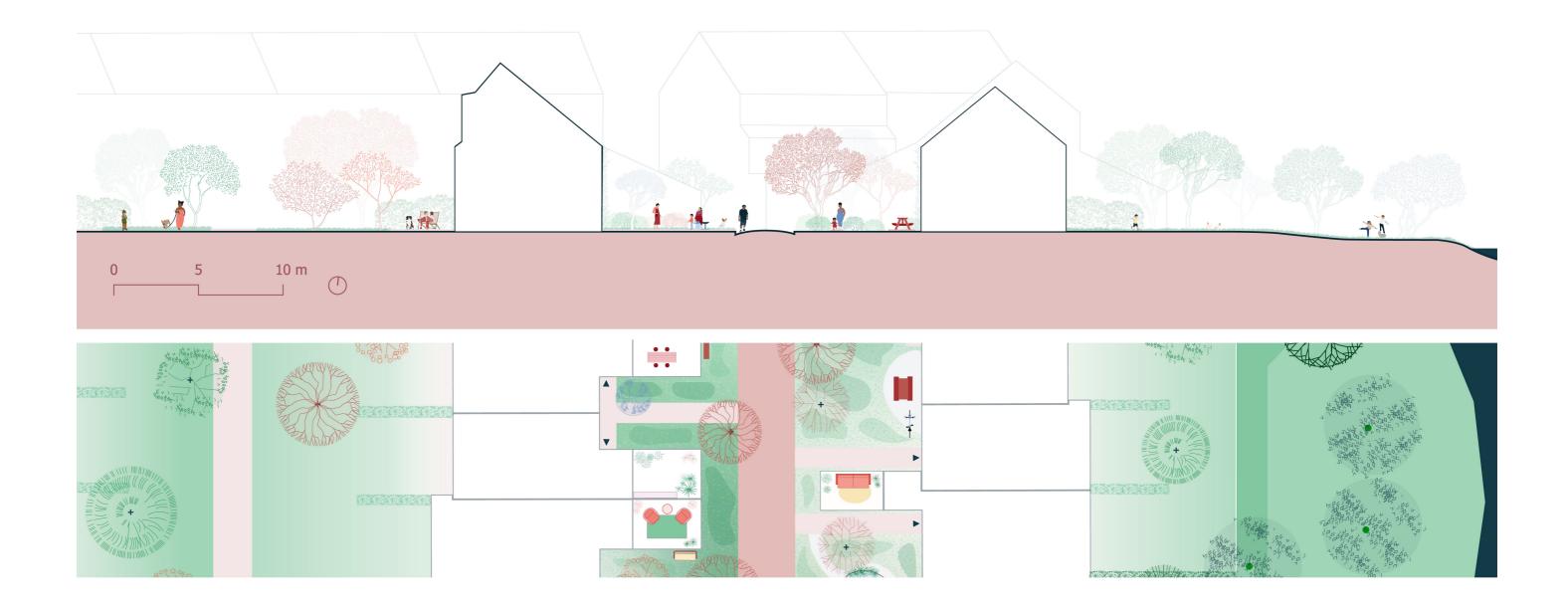
P5 22-09-2022 86/10<sup>1</sup>

## Woonerf | Wielewaalstraat



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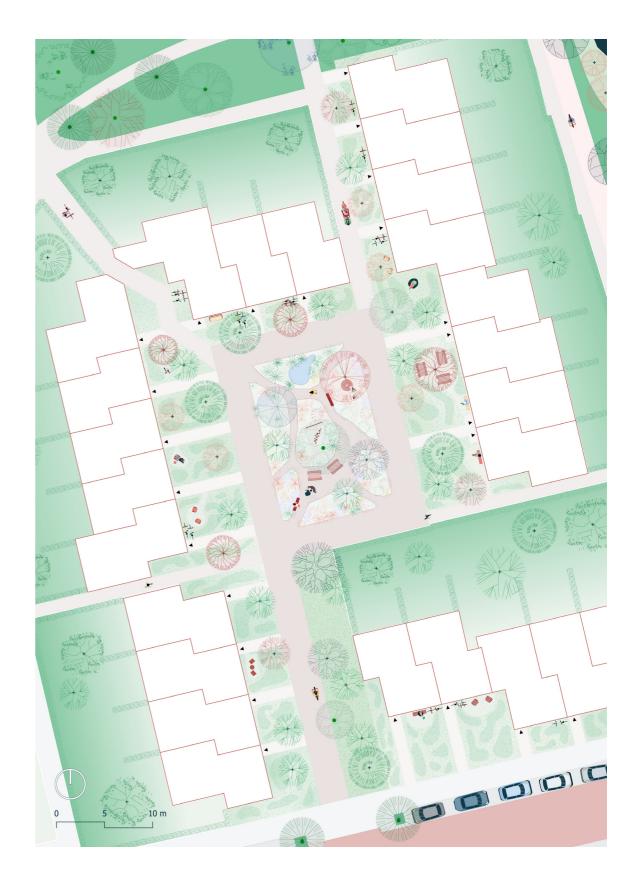
## Woonerf | Wielewaalstraat



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#### Woonerf | Eekhoornhof

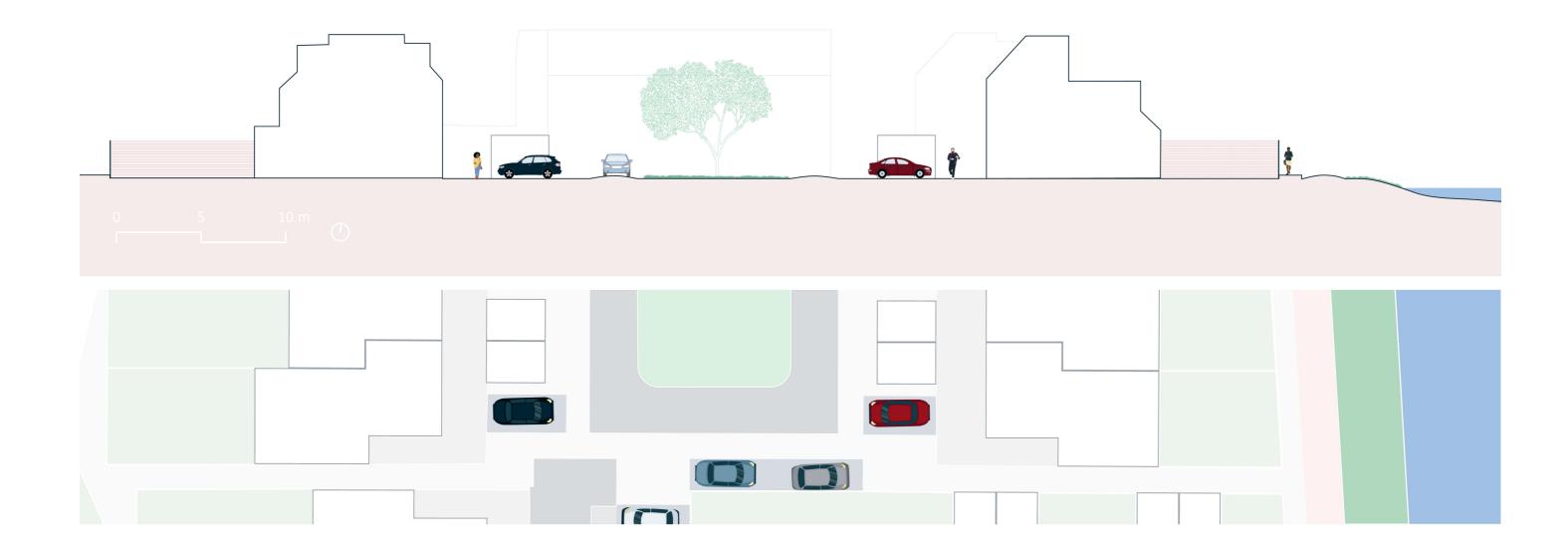




#### Woonerf | Eekhoornhof

Clara leaves her house after a tumultuous morning. Her mom is sick so she had to find a babysitter before she went off to work.

As a single mom of two toddlers, she is glad to talk to an adult every now and then. As she walks to the car, she notices her neighbour quickly jumping into his car -EarPods in. She waits for him to drive away and then starts her car. The promise of comfort and ease betrays her when she waits in yet another traffic jam. She arrives 10 minutes late. Around lunchtime, the new babysitter sends her a picture of the kids using her iPad, sitting on the lounge in their backyard. "At least I got them out of the house" she texts.

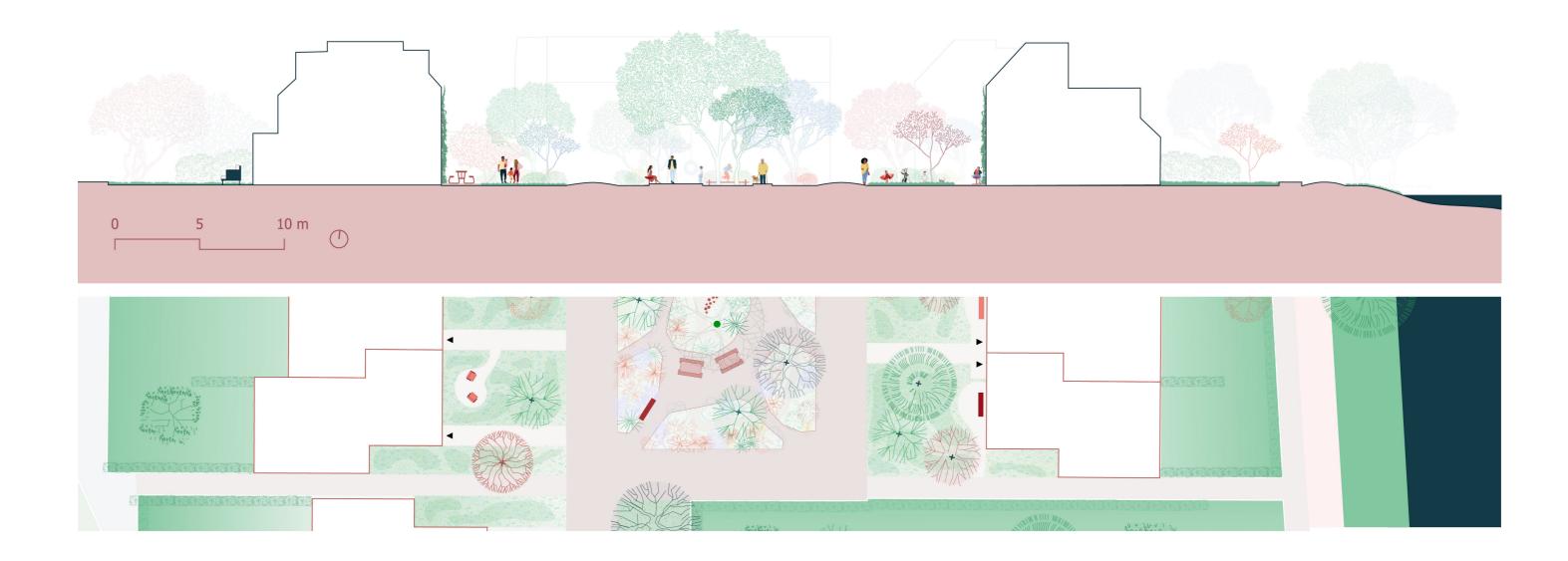


#### Woonerf | Eekhoornhof

Clara has found a new babysitter. It turned out that there are a lot of lonely, retired people in her neighbourhood. She kisses her kids goodbye, and jumps onto her bike. Her work is just a 15 minute ride, as she avoids the traffic jams.

At the end of the day she picks her kids up at Suzie's, who lives across the street. The elderly woman used to be very lonely, but now she and Clara have a weekly coffee.

The courtyard is a perfect place to play for those little ones, they don't want to stay inside any more. Clara's world has also grown over the year, she can always reach out to her neighbours.



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# Woonerf | Playing nature



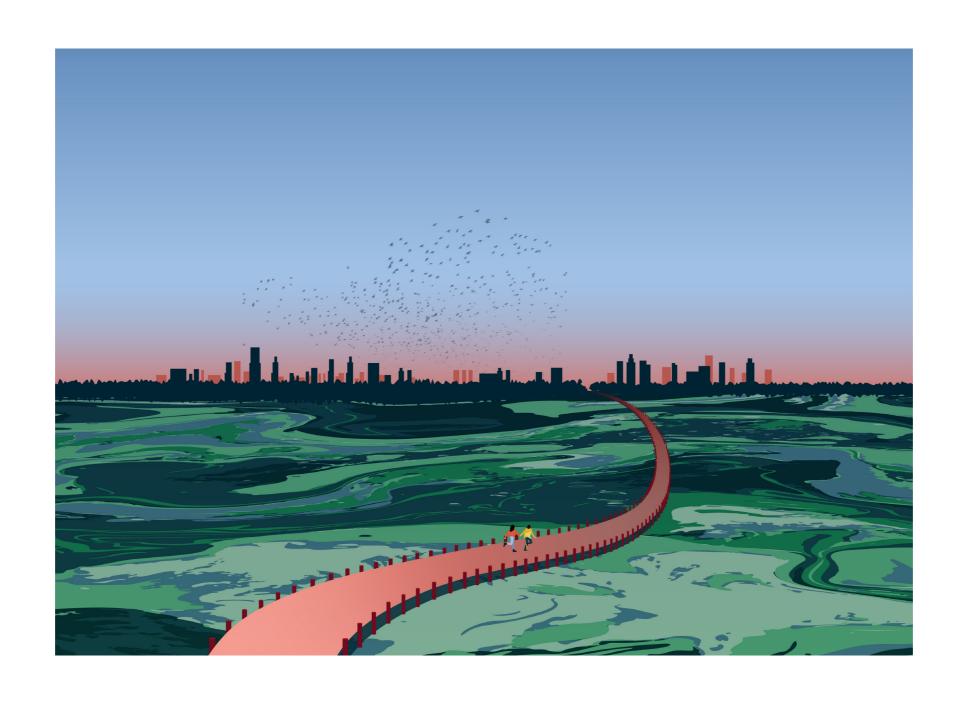












#### Conclusion

How can urban design of the woonerf type in Tanthof contribute to reconnecting people to the natural landscape system of Midden-Delfland, by facilitating meaningful gardens of responsibility?

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## Conclusion | Overview



## Delft | Green development

Soft shores

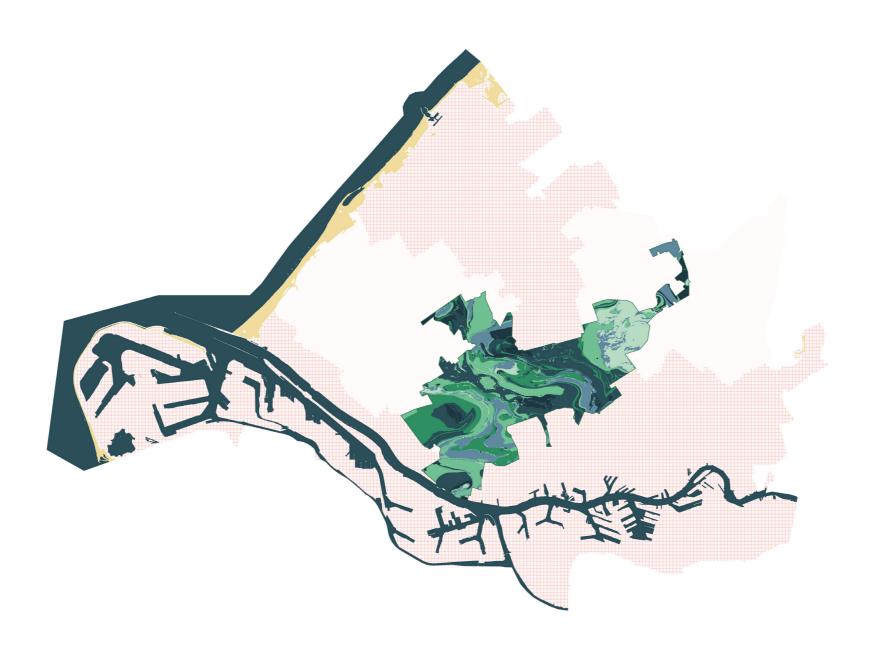
East-West connection

Green axis TU Campus

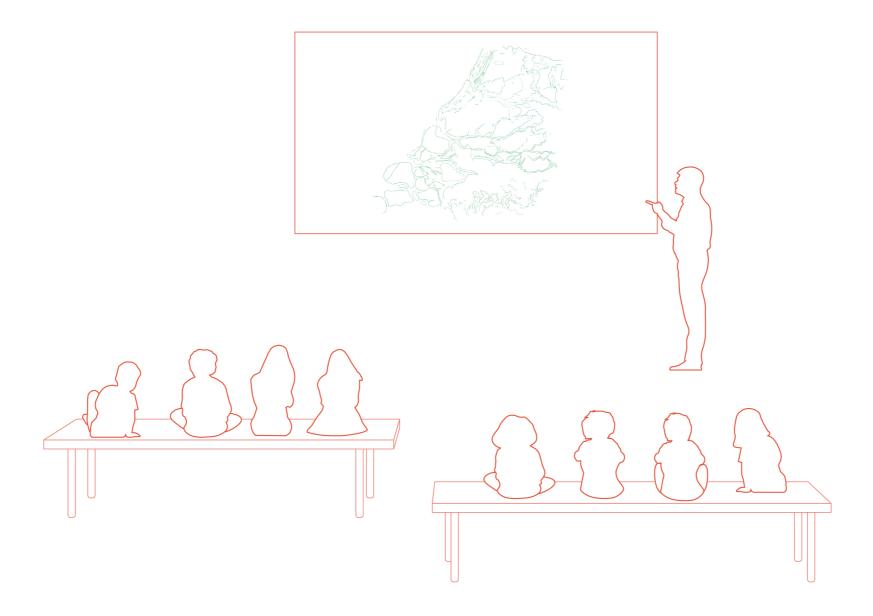
Add program



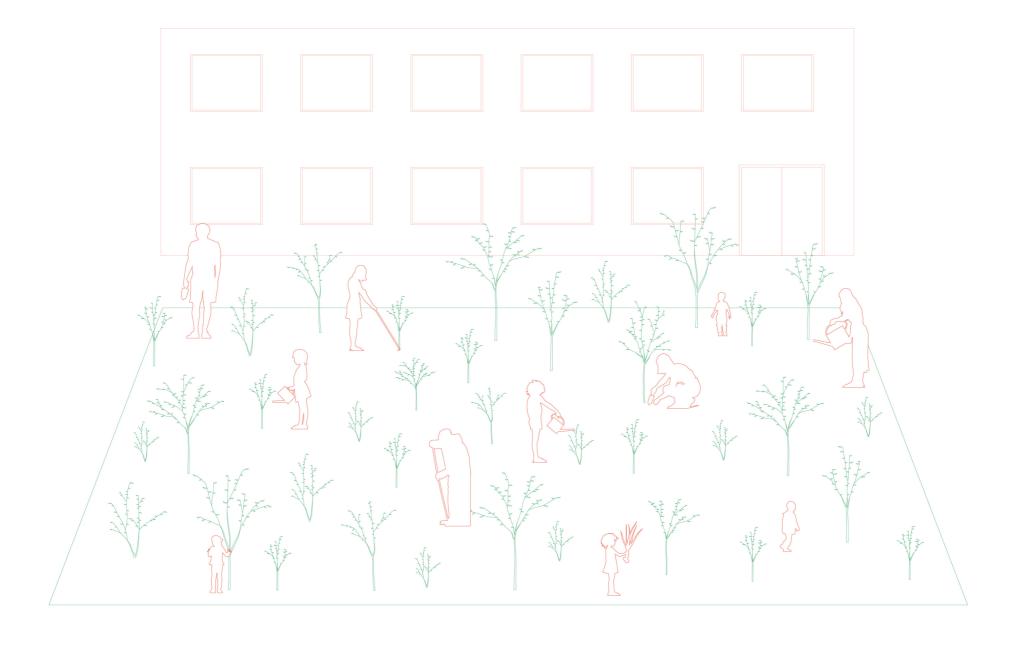
# Region | Nature reserve



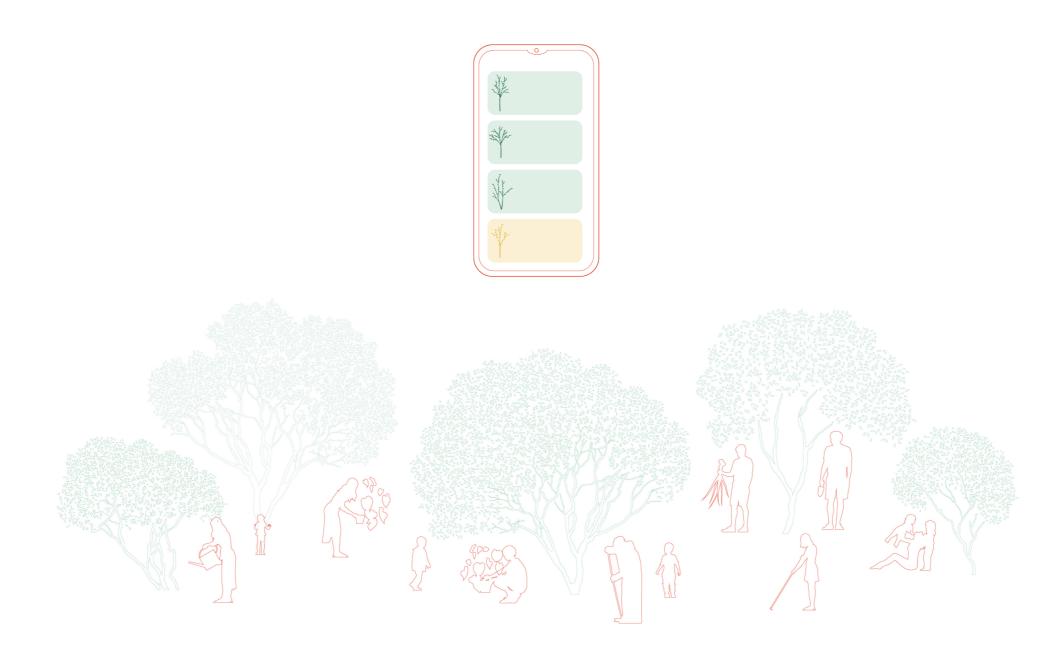
## National | Eco-education



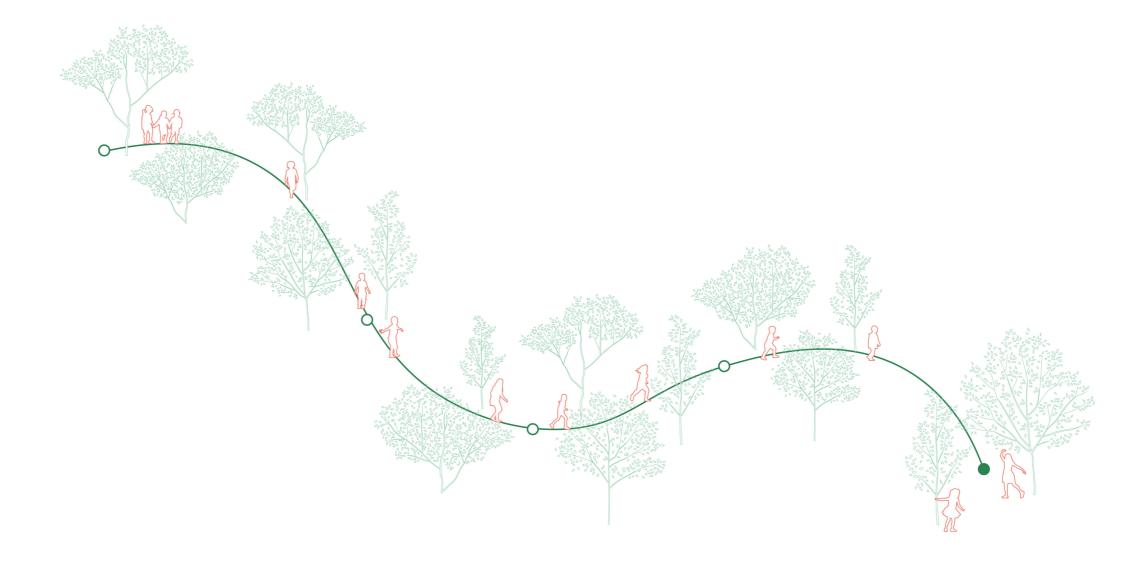
# National | Tiny Forest



# National | Planting app



## National | Staatsbosbeheer events



#### Reflection

Project dilemma: pragmatic / radical?

#### Methods

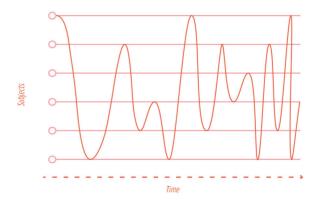
Peer tutoring
Using art in research

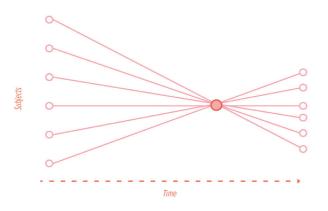
#### Process

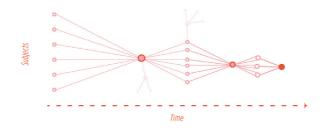
Associative thinking

#### Scientific relevance

Scenario thinking
Anthropology
Challenging the root of urban design









#### Art-based Research

Art-based research uses artistic forms and expressions to explore, understand, represent, and even challenge human experiences.

#### Qualitative research

It offers researchers a pathway to understand existing and emerging social phenomena differently. **Families** Research about art Art in research Art as research **Definition** Investigates art-related topics Artist-researchers aim to gain Art is actively applied by without artistically shaping the a deeper understanding of participants and/or artistobject or installation under the potential of art in researchers as a creative study, or without necessarily changing personal process in one or more phases (re)creating a material or experiences or environmental of a research process studying bodily reality to understand circumstances social and behavioral science the process of art making phenomena. itself. **Nature** Both qualitative and Artistic inquiry Qualititve inquiry quantitative inquiry Primary identity of Researcher Artist Researcher the artist-researcher Art as a content area Art as a way of inquiry Art as a method The role of art The relationship Qualitative (or quantitative) Research methods Artistic forms supporting inquiry into artistic topics supporting artistic inquiry qualitative inquiry between art and research Perspective of the Outsider Insider Insider artist-researcher Evaluating an art piece to Achitect Jeanne Gang The art component may be **Example** gain understanding of a organised workshops with used to determine the focus the citizens to design a particular social context of the research, formulate police station which research questions, generate/ contributes to a sense of collect /analyze data, present findings, response to the community. findings, evaluate research, and/or generate meaning and trigger responses from the audience.

Presenters summary of Arts-based Methods in Socially Engaged Research Practice: A Classification Framework (Wang et al., 2017).

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